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An analysis of the maps found in seven fifth grade American history textbooks

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AN ANALYSIS OF THE MAPS FOUND
IN SEVEN FIFTH GRADE AMERICAN
HISTORY TEXTBOOKS

Submitted by

Lewis Bernard Basquil

(A.B., St. Anselm's College, 1940)

In partial fulfillment of requirements
for the degree of Master of Education

1949

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CHAPTER I

THE PROBLEM

In years gone by the selection of textbooks was considered a minor task, and too little time was allotted to scientific, educational investigation into the textual material and visual aids that offered the best means of developing the understandings of the subject considered. The text salesman who offered the most outstanding reasons why his book should be purchased, regardless of its educational value, usually made the sale. Many of those charged with the duty of selecting the textbooks did not realize the importance of their judgment.

Today, however, there does exist the recognized importance on the part of many charged with selecting textbooks to perform an exacting evaluation and analysis of each book, in terms of its educational value to the user, before making a final choice. Many consider the selection of textbooks so important that usually a committee of experts, composed of superintendent, principals, and teachers, conduct a scientific and objective evaluation of the textbooks under consideration. They realize that, in spite of our progressive education, the textbook is still the basic reservoir of knowledge. A minute and intensive investigation, into the content, mechanical

make-up, and illustrative material of textbooks, is carried out, and evaluation of their contributions to the development of both educational and course objectives is determined.

Statement of the problem. This study is an attempt to analyze the maps found in seven fifth grade American history textbooks published between the years 1942 and 1948.

The map analysis is part of a group thesis plan in which other members of the group have analyzed, the men, the dates, the pictures, the place names, the references, and the selected events of the same seven history textbooks.

The letter preceding each book is the code letter representing that book throughout the present study.

- A. Barker, Eugene C., Alsager, Marie, and Webb, Walter P., The Story of Our Country. New York: Row Peterson and Company, 1943.
- B. Beeby, Daniel J., Hanna, Joyce L., and McClure, C.H., Our Country. New York: Laidlaw Brothers, 1942.
- C. Cordier, R. W., and Robert, E. B., History of Young America. New York: Rand McNally, 1948.
- D. Kelty, Mary G., Life in Early America. Boston: Ginn and Company, 1947.
- E. Lansing, Marion, Chase, W. Linwood, and Nevins, Allan, Makers of the Americas. Boston: D. C. Heath and Company, 1947.
- F. Maguire, Edna, America Then and Now. New York: Macmillan Company, 1948.
- G. Moore, Clyde B., Painter, Fred B., Carpenter, Helen M., and Lewis, Gertrude M., Building Our America. New York: Charles Scribner's Sons, 1948.

These books were examined for:

1. The type of caption found with each map.

2. The maps that possessed a scale of miles and those that did not.

3. The clarity of mechanical make-up of each map.

4. The size of the maps in each book.

5. The coloring of the maps in each book.

6. The maps that possessed a key and those that did not.

7. The period of which each map described an event or area.

8. The character of maps in each book.

9. The type of maps in each book.

10. The number of references to maps in each book.

11. The number of symbols found on maps in each book.

12. The number of place names found on maps in each book.

13. The location of a map list in each book.

14. The number and kinds of map projections found in each book.

15. The number of pictorial maps and maps with associative pictures found in each book.

16. The total number of maps in each book, the total number of text pages in each book, the total number of pages of text per map, and the total number of pages devoted to maps.

From such an analysis can be determined the use of maps as functional visual aids, in adding reality to the study of history and their contribution to the specific understandings

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to be developed. It is the conviction of the writer that American history textbooks should be analyzed and the results recorded so that teachers and administrators may discover what maps are found in them and can, therefore, be guided as far as maps are concerned in the choice of a text. From such an analysis can be derived pertinent conclusions not only from the individual texts but also with regard to their relative points of educational value.

Importance of the study. The importance of the mutual dependence of history and geography cannot be denied. Any and all events that have occurred and are considered as worthy of notation in history, must be identified in time and place. The place factor, inherently, denotes geographic considerations that invade historical data which give length to human ideas.

Topic after topic in history has a geographical basis so significant that without the map historical data lack meaning. Throughout the study of the periods of exploration and colonization, the map is as important as the facts of history themselves. Without a map, the story of a military campaign like Burgoyne's consists of a series of arbitrary details; with it, the facts follow in sequence so logical that the children can often anticipate the military progress. Similarly, the understanding of such topics as territorial growth, the Missouri Compromise, the growth of slavery, the Mason and Dixon Line, the growth of the West, the present-day distribution of population, or the American participation in the last offensive of the World War, are absolutely determined by familiarity with the map and its proper use throughout the series of lessons. The events of history can be "localized in time and space."¹

¹ Paul Klapper, *The Teaching of History* (New York: D. Appleton and Company, 1926), pp. 45-46.

The first part of the paper is devoted to a general discussion of the problem. It is shown that the problem is of great importance in the theory of differential equations. The second part is devoted to the study of the properties of the solutions of the problem. It is shown that the solutions of the problem are unique and that they depend continuously on the data of the problem. The third part is devoted to the study of the asymptotic properties of the solutions of the problem. It is shown that the solutions of the problem have a certain asymptotic behavior as the independent variable tends to infinity.

The fourth part of the paper is devoted to the study of the properties of the solutions of the problem. It is shown that the solutions of the problem are unique and that they depend continuously on the data of the problem. The fifth part is devoted to the study of the asymptotic properties of the solutions of the problem. It is shown that the solutions of the problem have a certain asymptotic behavior as the independent variable tends to infinity. The sixth part is devoted to the study of the properties of the solutions of the problem. It is shown that the solutions of the problem are unique and that they depend continuously on the data of the problem. The seventh part is devoted to the study of the asymptotic properties of the solutions of the problem. It is shown that the solutions of the problem have a certain asymptotic behavior as the independent variable tends to infinity. The eighth part is devoted to the study of the properties of the solutions of the problem. It is shown that the solutions of the problem are unique and that they depend continuously on the data of the problem. The ninth part is devoted to the study of the asymptotic properties of the solutions of the problem. It is shown that the solutions of the problem have a certain asymptotic behavior as the independent variable tends to infinity. The tenth part is devoted to the study of the properties of the solutions of the problem. It is shown that the solutions of the problem are unique and that they depend continuously on the data of the problem.

Historical events lacking placement are neither understood nor remembered. East stated in part, "Geography, at least in its physical aspect, provides a common denominator to all historical periods."²

Both history and geography have had influential effects on the unrolling of the map of the world as we know it today. Since this study is concerned with history, let us consider how history, in a few respects, influenced the formation of the map of the world. The travels of Marco Polo enabled contemporary cartographers to add to the map lands lying east of the then known world. The voyages of Columbus gave foundation to the fact that the world was round and not flat, and once again new lands were added to the map. Since that time new lands have been added to the map and simultaneously have become a part of history. Events, such as the World War, have changed the face of the map. Thus the close association between the map and history can readily be understood. It follows, therefore, that the use of the map in studying history is as indispensable as blueprints to a carpenter in building a house or the engineer in designing complicated machinery.

The first American history textbook written by John M'Culloch and printed in 1787 included one map, as stated by Spieseke, "The Introduction to the History of America had as a

² Gordon East, The Geography Behind History (New York: Thomas Nelson and Sons Ltd., 1938), p. 20.

The first of these is the fact that the

The second of these is the fact that the

The third of these is the fact that the

The fourth of these is the fact that the

The fifth of these is the fact that the

The sixth of these is the fact that the

The seventh of these is the fact that the

frontispiece a map which has become rather famous."³ Since the year 1787, the number of American history textbooks has increased tremendously, as has the number and variety of maps included in each text. Today, the author, in compiling a history textbook, is aided by a staff of experts including educational consultants, illustrators, and editorial staffs of the publisher. Considerable time and effort is put into the selection of maps, to be included in the textbook, that are functional and contribute to the concepts, both as to interest and understanding. A single map can illustrate a concept that might take several pages of textual material to explain and describe. Each map is designed to tell a story and to those who understand a map is offered a clear, concise, and graphic picture of the story in what is perhaps, "the greatest, single, printed page." A functional map adds reality to historical events and is a unique source of information.

Much research has been done on the evaluation of the method of visual approach in both teaching and learning. The bulk of information acquired in such research bears out the fact that through the medium of the eye a great part of knowledge is acquired. Educators, today, place great stress on the use of visual aids in developing concepts. Maps, found in American history textbooks, are visual aids and, as such if

³ Alice W. Spieseke, "The First Textbooks in American History," Contributions to Education, No. 744 (Bureau of Publications, Teachers College, Columbia University, New York, 1938), p. 64.

functionally sound, they round out the story being told by adding a realistic touch even though the map is only a symbol of reality. Through the medium of the map the student is enabled to project himself back to the time and place of the event. However, there are those who would dispute the importance and usefulness of textbook maps. Klapper says:

The maps in school texts are usually unsatisfactory for class use. They are too small, too detailed, and limited to a specific area. Questions on these maps reveal the fact that children experience no little difficulty in finding required data and in interpreting the symbols. The completeness of these maps is but a source of confusion. Recently it was found that few children studying a particular map showing one of the major campaigns of the Civil War recognized the region represented; they could not even identify the states shown in the small map. The first glance at the map was so forbidding that it discouraged further attention to it.⁴

The writer of this study would assume that Klapper in his aforementioned appraisal of a certain map refers to one that would be designated as lacking in functional appeal and possessed all the negative qualities of a good map illustration. Klapper, at the time of his writing, may have been correct, however, the writer does not agree that Klapper's categorizing of textbook maps, as "usually unsatisfactory," can be applied with such unqualified zest to maps found in modern textbooks. No doubt there are several non-functional and inadequate textbook maps included in modern textbooks. The writer would also hasten to add, that many of the inadequacies attributed to

⁴ Klapper, op. cit., p. 47.

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the textbook map are not the fault of the map itself, but of the teacher who should coordinate these smaller maps with larger wall maps and globes. This is borne out by Wayland in his statement that:

In textbooks are maps and pictures: they are there for a purpose, and in the hands of a competent teacher they have greater value. Maps and pictures on the walls are of still greater value, because they are seen continually and attention may so readily be directed to them by the teachers pointer and pointed words.⁵

The importance of textbook maps was reiterated by Johnson in stating:

Maps are indispensable to the effective teaching of history. They should be in constant use, -- the map in the textbook, the map chart, the map on the wall. Too much emphasis cannot be placed on this. Teachers have been observed covering the entire topic of the transplanting of Old Europe to the New World, without referring to a map. This is deplorable. It indicates a lazy and negligent teacher, for though a school board may refuse to purchase wall, or chart maps, there is no excuse for not using those in the text.⁶

Wesley in discussing textbook maps had this to say in part:

It is reasonable to assume that maps and graphs are even more important in some textbooks than pictures. Presumably, their teaching values are greater and their utility more frequent. Whereas most of the pictures that appear in textbooks, as well as other pictures of equal merit, can be found elsewhere, the maps and graphs are not so readily available. In fact, many of them cannot be found except in atlases and research studies. It may be,

⁵ John W. Wayland, How to Teach American History (New York: The Macmillan Company, 1925), p. 163.

⁶ Amanda Johnson, The Teaching of History and Citizenship in Grades and in Junior High School (Madison: The Parker Company, 1932), pp. 219-220.

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therefore, that in evaluating a textbook, the teacher is justified in attaching unusual significance to the number and quality of maps, charts and graphs.⁷

Summary. The writer has endeavoured to show the importance of the place element in the study of American history. History has been a vital factor in helping to form the map of the world which in turn intimates the required use of the map in recalling historical events. Textbook maps are visual aids, and as such are intended to clarify and explain historical concepts. Some do and some do not, some are functional and adequate, and some are not. The importance and value of textbook maps has been expressed by some and disputed by others. This analysis is important since it will give the reader an insight into the number, types, and various qualities of maps selected by the authors of the seven books considered, as well as their usefulness as visual aids in developing the concepts of American history. It is important to textbook selection committees by virtue of the fact that it offers a basis for critical judgment of maps, and since the books considered in this analysis are of recent publishing date, it will reveal the latest trends in history textbook map selections.

⁷ Edgar Bruce Wesley, Teaching the Social Studies Boston: D. C. Heath and Company, 1942), p. 392.

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CHAPTER II

REVIEW OF THE LITERATURE AND RELATED STUDIES

A research of literature shows that a great deal has been written concerning maps in general, and their use in the teaching of American history. A goodly portion of this literature was further delimited to maps found in history textbooks. However, research studies, as found by the writer, analyzing maps found in textbooks have been very limited, and are pertinent to those contained in geography texts and high school history texts. No studies, analyzing maps found in American history textbooks, at the grade level concerned, could be found. Though this review of research might not be all encompassing, in general, it does denote a definite need of research in the area with which this study is concerned.

The value and use of American history textbook maps has been expressed by several writers and authorities. In general their ideas, of a good history textbook map, appear in agreement, however there are a few conflicting opinions. Johnson,¹ is of the opinion that history textbook maps are still at times bad by reason of the fact that some of them are: too detailed,

¹ Henry Johnson, Teaching of History (New York: The Macmillan Company, 1940), p. 253.

conducive to eyestrain, and inaccurate. He adds that many maps, not only in textbooks but those found in more professional works such as larger histories and special works on historical geography, are definite whereas the sources on which they depend are indefinite and silent. Thus, the legitimacy of such maps is rather limited and they are constructed on a foundation of mere guesswork which should be noted. Johnson is firm in the conviction that textbook maps should meet rigid standards of criteria, as he stated:

Of the pictures, maps, and other visual aids offered by a textbook, the teacher may ask: Are they clearly printed? Are they scaled to easy vision? Are they definitely related to the text? What principles or preferences determined their selection? Does the author indicate the sources of the pictures and maps? Do the labels attached to pictures invite attention to differences in authenticity? Is there some comment on incorrect details? If there are symbolic pictures, is the symbolism really illuminating?²

The details to be taken into account, as regards maps found in history textbooks, was aptly expressed by Wesley and Adams in stating:

Maps in textbooks and atlases may be judged by such criteria as complexity, projections, supplementary enlargements, color, and map symbols. Black-and-white representation is especially useful for small maps because the low cost makes it possible to provide many maps, each to show one thing.³

It is the expressed belief of Wesley that, "The maps in

² Loc. cit.

³ Edgar Bruce Wesley and Mary A. Adams, Teaching Social Studies in Elementary Schools (Boston: D. C. Heath and Company, 1946), p. 248.

textbooks have the advantage of convenience and pertinency. The pupil can scarcely escape seeing them, and their relation to the context is usually obvious."⁴ Wesley⁵ points out three types of maps commonly found in textbooks and discusses their merits. The black-and-white map, designed to show one or two significant facts, is widely used, readily understandable, and inexpensive. He states, "Even in a reduced size it presents its unmistakable message."⁶ The colored map, valuable in showing the relationships of countries and areas, presents a multitude of detail. For years demarcation of colors was not in evidence, however, now this drawback has been removed by engravers and printers. Pictorial maps, showing varied features, are becoming popular in history. "They make a special appeal to young readers and seem well designed to deepen and clarify everyone's understanding."⁷

Wesley⁸ in his book, Teaching the Social Studies, reports a study made to determine the listing of maps found in forty social studies textbooks. It was found that the median number of maps and graphs was rather large for most of the his-

⁴ Edgar Bruce Wesley, Teaching the Social Studies (Boston: D. C. Heath and Company, 1942), p. 353.

⁵ Loc. cit.

⁶ Wesley, op. cit., p. 354.

⁷ Loc. cit.

⁸ Wesley, op. cit., pp. 381-382.

tory texts. Of the forty texts surveyed it was determined that only eighteen listed the black-and-white maps while seven more listed the colored maps only.

Mary Kelty,⁹ in agreement with Wesley, favors pictorial maps because of their interest. She believes that their deficiencies may be offset by their use in conjunction with other more accurate maps. For activities, as well as for testing purposes, she favors the use of the outline map. She favors the use of maps of different scales, sizes, and types in conjunction with textbook maps, so as to avoid the impression of pupils tending to associate a given place with a certain map.

In 1937, Ernest Horn in his writings, stated that:

In spite of great improvements in recent years, textbooks are still commonly deficient in maps, pictures and other visual aids, and those that are provided are often ineffectively related to the reading matter. Textbooks in geography in general, are far better in these particulars than are those in history.¹⁰

In discussing history textbook maps, Hartley emphasizes the following criteria:

1. The projection should be suited to the purposes for which the map is employed.
2. No map should be used that is less than half a page, and a full page one is preferred.
3. All maps should be as accurate as possible.
4. Employ universal color scheme in all physical maps (greener the green, the lower the elevation; the browner the brown, the higher the elevation).

⁹ Mary G. Kelty, Learning and Teaching History in the Middle Grades (Boston: Ginn and Company, 1936), p. 67.

¹⁰ Ernest Horn, Methods of Instruction in the Social Studies (New York: Charles Scribner's Sons, 1937), p. 213.

1870-1871

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5. Should be kept properly spaced near the text they illustrate.
6. Keep maps simple, avoid too much detail. Show just as much data as is necessary to get the main point across.
7. Shading and coloring on maps should be clear and pleasing.
8. Complicated battle maps, economic maps, and the like should be reserved for advanced students.
9. Picture maps should be introduced where they will serve to stimulate interest.
10. Every map should have a legend.¹¹

Miriam Compton in compiling a check list for evaluating maps in history texts, suggests the following:

- a. Is the total number and proportion of colored and uncolored ones helpful?
- b. Are the sizes good?
- c. Do the titles definitely indicate the purpose of each map?
- d. Are the sources of the maps shown?
- e. Are the maps accurate according to what they are supposed to show?
- f. Do they avoid over-cluttering with details? Does each emphasize the point which it is supposed to bring out?¹²

Gant,¹³ in his study of maps found in four texts in World history, for the purpose of evaluating the place element, made comparisons as to the number and kind of maps, and pages of space devoted to maps by each author in each of the three

¹¹ William H. Hartley, "Audio-Visual Materials and Techniques," The Study and Teaching of American History, Richard E. Thursfield, editor, Seventeenth Yearbook of the National Council for the Social Studies, Washington, D. C., 1946. pp. 307-309.

¹² Miriam A. Compton, An Evaluation of History Texts (Philadelphia: McKinley Publishing Company, 1932), p. 19.

¹³ Homer F. Gant, "The Place Element in High School Texts on World History (A Study of Maps)," (unpublished Master's thesis, The Ohio State University, Columbus, 1930).

periods of World history. He tabulated the maps according to page, size, color, period (ancient, medieval, modern), purpose, use, and legend. From his investigation, he concluded that general agreement was found in the choice of maps for Ancient and Modern history, but almost no agreement in the choice of maps for the Medieval period. As concerns the purpose and use of maps, he found that the military idea predominates in all texts. He found exercises and questions based on maps included in but one text and only one direct reference to any map was found. His most important conclusion was that, as a rule, textbook writers do not give adequate attention to linking history and geography, nor make adequate use of the map as a device to stimulate the pupils power to think -- this left to the teachers who are often unprepared for this purpose. His final conclusion was that proper attention by the textbook writers to maps and the uses thereof would help considerably in making history textbooks more effective instruments of instruction.

The Eighth Yearbook of the National Council for the Social Studies reports an analysis of visual aids in ten senior high school American history textbooks, by Calvin Hall,¹⁴ in

¹⁴ Calvin S. Hall, "An Analysis of Visual Aids in Ten Senior High School History Textbooks," (unpublished Master's thesis, The State University of Iowa, 1931), cited by The Eighth Yearbook of the National Council for the Social Studies, 1937, pp. 178-179.

Iowa in 1931. By use of the square centimeter, he computed the space devoted to visual aids in relation to the total page space of the books. He found, that of the total page space devoted to visual aids, 32.9 percent was devoted to maps.

In January 1939, Meredith Gilpatrick¹⁵ reported in The Social Studies of a survey, to determine geographical concepts found in seven, outstanding, high school, American history textbooks. As part of this study he investigated the character of maps used, which he divided into six categories and tabulated. Political maps were found to predominate in most books with routes of exploration, war and commerce maps running second. He found that one of the books surveyed did not have a single map in 1,661 pages of context. From his study he concluded that most of the books surveyed lagged lamentably behind the best knowledge and practice of present geography, and that they dealt more with qualitative change in time with little reference to change in space.

Walsh,¹⁶ in her study, analyzed the maps, pertaining to World War I, found in ten junior high school history textbooks. She tabulated the maps alphabetically so as to show in

¹⁵ Meredith P. Gilpatrick, "Geographical Concepts in American History Textbooks," The Social Studies, 30:28-32, January, 1939.

¹⁶ Emily L. Walsh, "An Analysis of the Treatment of World War I in Ten Junior High School History Textbooks;" (unpublished Master's thesis, Boston University, Boston, 1946), pp. 42-46.

which text each appeared and in which text each was omitted. She found that in all texts a total of sixteen maps were used of which number there were nine different maps. The number of maps ranged from three in one text to one in five texts. She concluded, that every textbook author recognized the need for at least one map although there appeared to be a wide difference of opinion regarding which map to use, and that the majority of maps were very detailed with few showing causes and results.

CHAPTER III

PROCEDURE USED IN THE STUDY

The seven books, chosen by the group working on textbook analysis of fifth grade American history books, were selected on a basis of recent publication and present use in the elementary schools.

The textbooks that were used are listed below. The letter preceding the name of each book represents the textbook throughout the study, and is used as a code letter.

- A. Barker, Eugene C., Alsager, Marie, and Webb, Walter P., The Story of Our Country. New York: Row Peterson and Company, 1943.
- B. Beeby, Daniel J., Hanna, Joyce L., and McClure, C.H., Our Country. New York: Laidlaw Brothers, 1942.
- C. Cordier, R. W., and Robert, E. B., History of Young America. New York: Rand McNally, 1948.
- D. Kelty, Mary G., Life in Early America. Boston: Ginn and Company, 1947.
- E. Lansing, Marion, Chase, W. Linwood, and Nevins, Allan, Makers of the Americas. Boston: D. C. Heath and Company, 1947.
- F. Maguire, Edna, America Then and Now. New York: Macmillan Company, 1948.
- G. Moore, Clyde B., Painter, Fred B., Carpenter, Helen M., and Lewis, Gertrude M., Building Our America. New York: Charles Scribner's Sons, 1948.

All of the maps in the aforementioned books, with the

CHAPTER I

THE HISTORY OF THE

REIGN OF THE GREAT MONARCH

OF THE ISLAND OF GREAT BRITAIN

IN THE SEVENTH CENTURY OF THE CHRISTIAN ERA

BY JOHN GAY

IN TWO VOLUMES. THE FIRST

CONTAINS THE HISTORY OF THE

REIGN OF THE GREAT MONARCH

OF THE ISLAND OF GREAT BRITAIN

IN THE SEVENTH CENTURY OF THE CHRISTIAN ERA

BY JOHN GAY

IN TWO VOLUMES. THE SECOND

CONTAINS THE HISTORY OF THE

REIGN OF THE GREAT MONARCH

OF THE ISLAND OF GREAT BRITAIN

IN THE SEVENTH CENTURY OF THE CHRISTIAN ERA

BY JOHN GAY

exception of those included as part of a picture or used as decorative illustrations, were then analyzed by the writer in the following manner.

Listing. Each map, in the seven textbooks, was tabulated according to number and title in the series of tables I-A through I-G. If no title accompanied the map, the title assigned to it in the map list, if one existed, was used. If there was no title whatsoever, the map was tabulated according to number only. Each map was tabulated according to number only in all but the above-mentioned tables.

Captions. For purposes of classification according to caption, each map was tabulated as to whether it possessed a caption only, no caption, a caption with an explanatory statement, a caption with a question, or a question with an explanatory statement only.

Scale. Each map was classified according to whether or not it possessed a scale of miles.

Clarity. Each map was classified according to clarity of mechanical make-up. Ratings used were good, fair, and poor. Ratings were determined as to how the map appeared to the eye of the writer. A rating of good signified that all items included in the map were clear and understandable. A rating of fair signified that a few of the items included in the map lacked clearness. A rating of poor signified that the map, in

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general, was too small and items were difficult to discern.

Size. For purposes of classification, each map, in all books, was measured, by means of a rule or compass, and tabulated according to size -- a full page map, a map covering from more than half to a full page, a half page map, and one covering less than half of a page. In measuring each map any extraneous border was excluded, and captions or printed matter outside the map were excluded. Actual area measurement was figured to the nearest hundredths of a square inch.

In determining a full page map, the map that covered or most nearly covered the total area of a page, in each book, was selected. The remaining classifications were then figured on this measurement. If a map closely approached the area of a map designated as full page, it too was considered full page. A map covering a double page was designated as full page and was given its total area measurement in computing the total area allotted to maps in each book. If two maps were found on a single page they were considered as one map.

Color. Each map was classified as colored or black-and-white and so tabulated.

Key. Each map was tabulated according to whether it possessed a key or not.

Period. Each map was tabulated according to the period of time in which it depicted an event or area. The period of

The first of these was the discovery of gold in California in 1848. This led to a great influx of people to the state, and the population grew rapidly. The second was the discovery of gold in Nevada in 1859. This also led to a great influx of people to the state, and the population grew rapidly. The third was the discovery of gold in Colorado in 1858. This also led to a great influx of people to the state, and the population grew rapidly. The fourth was the discovery of gold in Idaho in 1860. This also led to a great influx of people to the state, and the population grew rapidly. The fifth was the discovery of gold in Montana in 1862. This also led to a great influx of people to the state, and the population grew rapidly. The sixth was the discovery of gold in Wyoming in 1863. This also led to a great influx of people to the state, and the population grew rapidly. The seventh was the discovery of gold in Utah in 1864. This also led to a great influx of people to the state, and the population grew rapidly. The eighth was the discovery of gold in Arizona in 1865. This also led to a great influx of people to the state, and the population grew rapidly. The ninth was the discovery of gold in New Mexico in 1866. This also led to a great influx of people to the state, and the population grew rapidly. The tenth was the discovery of gold in Texas in 1867. This also led to a great influx of people to the state, and the population grew rapidly.

The discovery of gold in California in 1848 was the first of a series of discoveries that led to the rapid growth of the western states. The discovery of gold in Nevada in 1859 was the second, and the discovery of gold in Colorado in 1858 was the third. The discovery of gold in Idaho in 1860 was the fourth, and the discovery of gold in Montana in 1862 was the fifth. The discovery of gold in Wyoming in 1863 was the sixth, and the discovery of gold in Utah in 1864 was the seventh. The discovery of gold in Arizona in 1865 was the eighth, and the discovery of gold in New Mexico in 1866 was the ninth. The discovery of gold in Texas in 1867 was the tenth.

time was divided into three categories;-1492, the period prior to the discovery of America by Columbus, 1492-1720, the period recorded as the first half of American history, and 1721-1949, the period recorded as the second half of American history. If a map depicted events in two periods, it was classified according to the period in which the greater number of events occurred.

Character. The character of each map was determined by the fact of the information it depicted. Each map was classified into one of fifteen categories.

A political map denoted one that depicted mainly divisional boundaries of continents, countries, states, or territories.

A political possession map denoted one that depicted possessions and showed divisional boundaries of same.

A political settlement map denoted one that depicted settlement areas and showed divisional boundaries of same.

A political war map denoted one that depicted war areas and political alignment of countries or states engaged in the conflict.

A political defense map denoted one that depicted defense areas fortified by a country.

An exploration map denoted one that depicted routes of exploration or an area of exploration.

An expansion map denoted one that depicted routes of

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expansion or an area of expansion.

A trade map denoted one that depicted routes used to carry on trade.

A travel map denoted one that depicted routes used for travel.

A communication map denoted one that depicted routes used for communication purposes.

A war map denoted one that depicted routes of war or battle lines.

A settlement map denoted one that depicted settlement areas with little or no definition of boundaries.

A regional map denoted one that depicted a regional area or regional possessions.

A projection denoted one that depicted a type of map projection.

A picture map denoted one that might be compared to a snapshot. This is not to be confused with a pictorial map or a map containing associative pictures or drawings.

Type. Each map was divided, according to type into two categories -- functional illustrations, and non-functional illustrations.

A functional illustration signified one that helped to develop an understanding of the textual material.

A non-functional illustration signified one that gave no help in developing an understanding of the textual material.

References. The total number of references made to each map was tabulated. References were considered as being made from two sources -- the textual material proper and through map activities. If a map activity could be done by referring to a certain map in the book, even though there was no direct reference to the map, this was considered as a reference. Maps that succeeded such activities were not considered in performing an activity unless there was direct reference. If the use of two preceding maps was necessary to perform an activity, each was considered as having been referred to. The average number of references per map, as well as the average number of references to all maps, and the total number of references to all maps in each book was determined.

Symbols. The total number of different symbols found on each map was counted and tabulated. All conventional map symbols were considered, as well as all types of route symbols, and any special symbols. Demarcation of color or shading was considered as a symbol when significant. The average number of symbols per map, as well as the average number of symbols on all maps, and the total number of symbols on all maps were determined.

Place Names. The total number of different place names found on each map was counted and tabulated. The average number of place names per map, as well as the average number of place names on all maps, and the total number of place names

on all maps was determined.

Distribution. The numerical distribution of all the aforementioned classifications in all books was determined for the purpose of comparing each book.

Location of map list. Each book was examined for the location of a map list. If no map list existed the book was classified as having none. If the map list was found in the front of the book it was classified as being a part of the table of contents. If the map list was found at the end of the book preceding the index it was classified as being in the appendix. If the map list was found in the index, it was so classified.

Projections. The numerical distribution, as well as the different kinds, of map projections found in each book, was determined and tabulated. The type of projection was determined mainly through the position of the meridians and parallels. If a map had no meridians and parallels it was not considered a projection.

Pictorial maps. The numerical distribution of pictorial maps found in each book was tabulated.

A pictorial map was classified as a map that consisted almost entirely of pictures, as contrasted to a regular map with pictures superimposed.

Maps with associative pictures. The numerical distribution of maps with associative pictures found in each book was tabulated. Such a map was classified as a regular map with pictures superimposed on it or with pictures outside the map proper.

Number of pages of text per map. The total number of pages per book was determined by counting all pages exclusive of appendix or index which followed the last page of textual material and forward or table of contents which preceded the title page of first unit. These were tabulated and then divided by the total number of maps in each book so as to show the number of pages of text per map.

Number of pages devoted to maps. The total area of a page of text of each book was determined by measurement, this was then divided into the total area of maps found in each book, so as to show the number of pages devoted to maps. The results were then tabulated.

Number of map activities. The total number of map activities in each book was determined. They were classified according to whether they pertained to maps in the textbook or to maps in general.

CHAPTER IV

ANALYSIS OF DATA

The data were analyzed to determine the characteristics of the maps included in seven fifth grade American history textbooks.

Maps were analyzed according to their number, their captions, their scale, their clarity, their character, their type, their size, their color, their key, period, number of references, symbols, place names, list location, number and kinds of projections, number of pictorial maps, and number of maps with associative pictures.

The series of tables I-A through I-G show the number and title of maps, the nature of map captions, whether there is a scale of miles or not, and the rating of clarity of mechanical make-up.

A map without a caption might be compared to a story without a title, since in either case, the reader cannot determine the content at first glance. Captions tend to make a map more effective.

A scale of miles is a necessity in enabling map readers to interpret distances. All true maps should have a scale.

A map that lacks clarity of mechanical make-up tends to be confusing and uninteresting.

1. Introduction

2. Background

The purpose of this study is to investigate the effects of

the proposed system on the performance of the system.

The study is organized as follows:

In the first section, we describe the system and the proposed system. In the second section, we describe the experimental setup. In the third section, we describe the results of the experiment. In the fourth section, we describe the conclusions of the study.

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The study is organized as follows:

In the first section, we describe the system and the proposed system.

In the second section, we describe the experimental setup.

TABLE I-A

NATURE OF CAPTIONS, SCALE, AND CLARITY OF MAPS FOUND IN BOOK A

Title of Map	Caption	Scale	Clarity
1. The World about 1300 Years Ago	C.O.	No	Good
2. The World Today	C.O.	No	Good
3. Lands Visited by the Northmen	C.O.	No	Good
4. Marco Polo's Travels	C.O.	No	Good
5. Voyages of Columbus	C.O.	No	Good
6. Spanish Explorations	C.O.	No	Good
7. Spanish Explorations	C.O.	No	Good
8. French Explorations	C.O.	No	Good
9. English Explorations	C.O.	No	Good
10. European Possessions in North America after the Treaty of 1763	C.O.	No	Good
11. The Northwest Territory	C/E.	No	Good
12. The United States after the Treaty of 1783	C.O.	No	Good
13. The Louisiana Purchase	C.O.	No	Good
14. The Oregon Trail	C.O.	No	Good
15. Trails to the Far West about 1850	C.O.	No	Good
16. Territorial Growth of the United States	C.O.	No	Good
17. Free and Slave States in 1861	C.O.	No	Good
18. The United States and Its Possessions	C.O.	No	Good

NOTE: In tables I-A through I-G, Caption -- C.O. means caption only, N.C. means no caption, C/E. means caption with

explanatory statement, C/Q. means caption with question, and E/Q. means explanatory statement with question only.

The preceding table shows that in book A there was a total of eighteen maps.

There were seventeen maps possessing a caption only, and one map possessing a caption with an explanatory statement.

All maps lacked a scale of miles.

All maps were rated as good as regards clarity of mechanical make-up.

TABLE I-B

NATURE OF CAPTIONS, SCALE, AND CLARITY OF MAPS FOUND IN BOOK B

Title of Map	Caption	Scale	Clarity
1. Trade Routes	C.O.	No	Poor
2. Old Italian Map	C.O.	No	Good
3. World Exploration	C.O.	No	Fair
4. Spanish Exploration	C.O.	No	Fair
5. French and English Explorations	C.O.	No	Fair
6. The Thirteen Colonies	C.O.	No	Good
7. Westward Expansion	C.O.	No	Fair
8. The War between the States	C.O.	No	Good
9. The United States Today	C.O.	No	Good

The preceding table shows that in book B there was a total of nine maps, all possessing a caption only.

All maps lacked a scale of miles.

There were four maps rated as good as regards clarity of mechanical make-up, four rated fair and one rated as poor. The four rated as fair were #3 (areas of exploration too small-part of key difficult to see - routes confusing), #4 (areas of exploration too small-part of key difficult to see), #5 (areas of exploration too small-part of key difficult to see - routes confusing), and #7 (area of expansion too small-part of key difficult too see). Map #1 was rated as poor (map very small-demarcation of color poor - difficult to read key).

1. The first part of the document is a list of names and addresses of the members of the committee.

2. The second part of the document is a list of names and addresses of the members of the committee.

3. The third part of the document is a list of names and addresses of the members of the committee.

4. The fourth part of the document is a list of names and addresses of the members of the committee.

5. The fifth part of the document is a list of names and addresses of the members of the committee.

6. The sixth part of the document is a list of names and addresses of the members of the committee.

7. The seventh part of the document is a list of names and addresses of the members of the committee.

8. The eighth part of the document is a list of names and addresses of the members of the committee.

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11. The eleventh part of the document is a list of names and addresses of the members of the committee.

12. The twelfth part of the document is a list of names and addresses of the members of the committee.

13. The thirteenth part of the document is a list of names and addresses of the members of the committee.

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15. The fifteenth part of the document is a list of names and addresses of the members of the committee.

16. The sixteenth part of the document is a list of names and addresses of the members of the committee.

17. The seventeenth part of the document is a list of names and addresses of the members of the committee.

18. The eighteenth part of the document is a list of names and addresses of the members of the committee.

19. The nineteenth part of the document is a list of names and addresses of the members of the committee.

20. The twentieth part of the document is a list of names and addresses of the members of the committee.

21. The twenty-first part of the document is a list of names and addresses of the members of the committee.

22. The twenty-second part of the document is a list of names and addresses of the members of the committee.

23. The twenty-third part of the document is a list of names and addresses of the members of the committee.

24. The twenty-fourth part of the document is a list of names and addresses of the members of the committee.

25. The twenty-fifth part of the document is a list of names and addresses of the members of the committee.

TABLE I-C

NATURE OF CAPTIONS, SCALE, AND CLARITY OF MAPS FOUND IN BOOK C

Title of Map	Caption	Scale	Clarity
1. Earliest Routes from Europe to the Lands of the East	C.O.	No	Good
2. Routes of Explorers in the Americas	N.C.	Yes	Good
3. Map Showing the Line of Demarcation	C.O.	No	Good
4. The Explorations of Ponce de Leon, Cartier, Desoto and Coronado	C.O.	No	Good
5. Growth of Settlement in the New World	C/E.	No	Good
6. The Chesapeake Bay Area	C/E.	Yes	Good
7. The New England Area	C/E.	Yes	Good
8. The New Netherland Area	C/E.	Yes	Good
9. Settlements in Eastern North America before 1760	N.C.	Yes	Fair
10. Early Settlements in New Jersey and Pennsylvania	C.O.	Yes	Good
11. Where Later Settlements Were Made in the South	C.O.	Yes	Good
12. Exploration and Settlement by Four Nations to 1760	C.O.	No	Good
13. Campaigns of American Revolution	N.C.	Yes	Good
14. Westward Expansion of the United States	C.O.	No	Good
15. National, State, and Territorial Boundaries as of 1861	C.O.	Yes	Good
16. Early Settlements in California	C.O.	Yes	Good

1. *Chlorophyll a* and *Chlorophyll b* contents of leaves were determined by spectrophotometry.

2. *Carotenoid* contents of leaves were determined by spectrophotometry.

3. *Protein* contents of leaves were determined by spectrophotometry.

4. *Starch* contents of leaves were determined by spectrophotometry.

5. *Cellulose* contents of leaves were determined by spectrophotometry.

6. *Lignin* contents of leaves were determined by spectrophotometry.

7. *Pectin* contents of leaves were determined by spectrophotometry.

8. *Hemicellulose* contents of leaves were determined by spectrophotometry.

9. *Phenolic compounds* contents of leaves were determined by spectrophotometry.

10. *Flavonoids* contents of leaves were determined by spectrophotometry.

11. *Terpenoids* contents of leaves were determined by spectrophotometry.

12. *Saponins* contents of leaves were determined by spectrophotometry.

13. *Glycosides* contents of leaves were determined by spectrophotometry.

14. *Alkaloids* contents of leaves were determined by spectrophotometry.

15. *Enzymes* contents of leaves were determined by spectrophotometry.

16. *Antioxidants* contents of leaves were determined by spectrophotometry.

17. *Antibiotics* contents of leaves were determined by spectrophotometry.

18. *Anticancer* contents of leaves were determined by spectrophotometry.

19. *Antiviral* contents of leaves were determined by spectrophotometry.

20. *Antifungal* contents of leaves were determined by spectrophotometry.

TABLE I-C (continued)

NATURE OF CAPTIONS, SCALE, AND CLARITY OF MAPS FOUND IN BOOK C

Title of Map	Caption	Scale	Clarity
17. Early Settlements in the Northwest	C.O.	Yes	Good
18. United States in 1871	C.O.	Yes	Good
19. South America in the 19th Century	C.O.	Yes	Good

The preceding table shows that in book C there was a total of nineteen maps.

There were twelve maps that possessed a caption only, four maps possessed a caption accompanied by an explanatory statement, and three maps possessed no caption whatsoever. The caption used for maps #2, 9, and 13 was taken from the list of maps found in the index.

There were thirteen maps that possessed a scale of miles, and six maps possessed no scale of miles.

There were eighteen maps rated as good as regards clarity of mechanical make-up, and one map rated as fair. Map #9 was rated as fair (blue color and elevation shading make some names difficult to discern).

1. The first part of the document is a letter from the President of the United States to the Congress, dated January 1, 1861. It is a very important document, as it sets out the policy of the new administration. The President states that he is a firm believer in the principles of liberty and justice for all, and that he is determined to uphold the Constitution of the United States. He also states that he is determined to maintain the Union, and that he is willing to make any sacrifice for the good of the country.

2. The second part of the document is a report from the Secretary of the Treasury, dated January 1, 1861. It is a very important document, as it sets out the financial policy of the new administration. The Secretary states that the Treasury is in a very strong position, and that it is able to meet all the needs of the government. He also states that the Treasury is determined to maintain the credit of the United States, and that it is willing to make any sacrifice for the good of the country.

TABLE I-D

NATURE OF CAPTIONS, SCALE, AND CLARITY OF MAPS FOUND IN BOOK D

Title of Map	Caption	Scale	Clarity
1. The Portuguese Sail around Africa	C.O.	No	Good
2. Portugal's Empire	C/E.	No	Good
3. Map Made from Globe in Use in Columbus's Time	C/E.	No	Good
4. Columbus's Four Voyages	C.O.	No	Good
5. Mountains and Lowlands	C/Q.	No	Good
6. The First Circumnavigation of the Globe	C.O.	No	Good
7. - - - - -	E/Q.	No	Good
8. Early Voyages by the English	C.O.	No	Good
9. Explorations in New France	C.O.	No	Good
10. The Empire That the Dutch Held in 1940	C/Q.	No	Good
11. Where the Dutch Came	C.O.	No	Good
12. Land that the Southern Colonists Settled	C.O.	No	Good
13. The Plantation Colonies	C.O.	No	Good
14. The Northern Colonies	C.O.	No	Good
15. The Middle Colonies	C.O.	No	Good
16. The Triangle of Trade	C.O.	No	Good
17. - - - - -	N.C.	Yes	Good
18. North America in 1763	C.O.	Yes	Good
19. The Revolution in New England	C.O.	Yes	Good

TABLE I-D (continued)

NATURE OF CAPTIONS, SCALE, AND CLARITY OF MAPS FOUND IN BOOK D

Title of Map	Caption	Scale	Clarity
20. The Revolution in the Middle Colonies	C.O.	Yes	Good
21. The Revolution in the Back Country	C.O.	Yes	Good
22. The Revolution in the South	C/Q.	Yes	Good
23. The British Surrounded at Yorktown	C/Q.	No	Good
24. District of Columbia and the City of Washington	C.O.	Yes	Good

The preceding table shows that in book D there was a total of twenty-four maps.

There were sixteen maps that possessed a caption only, two maps possessed a caption accompanied with an explanatory statement, four maps possessed a caption accompanied with a question pertaining to the information contained on the map, and two maps possessed no caption, one of which had an explanatory statement and a question.

There were seventeen maps that lacked a scale of miles, and seven maps had a scale of miles.

All maps were rated as good as regards clarity of mechanical make-up.

CHAPTER 1

The first part of the book is devoted to a general discussion of the subject.

The second part of the book is devoted to a detailed discussion of the subject.

The third part of the book is devoted to a detailed discussion of the subject.

The fourth part of the book is devoted to a detailed discussion of the subject.

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The twenty-third part of the book is devoted to a detailed discussion of the subject.

The twenty-fourth part of the book is devoted to a detailed discussion of the subject.

The twenty-fifth part of the book is devoted to a detailed discussion of the subject.

The twenty-sixth part of the book is devoted to a detailed discussion of the subject.

The twenty-seventh part of the book is devoted to a detailed discussion of the subject.

The twenty-eighth part of the book is devoted to a detailed discussion of the subject.

TABLE I-E

NATURE OF CAPTIONS, SCALE, AND CLARITY OF MAPS FOUND IN BOOK E

Title of Map	Caption	Scale	Clarity
1. Early European Voyages to the Americas	C/E.	No	Good
2. The Vikings in the North Atlantic	C.O.	No	Good
3. The World Known to Europeans in 1490	C.O.	No	Good
4. Columbus Explores the Caribbean	C.O.	No	Fair
5. The Pope's Line	C.O.	No	Good
6. British, Spanish, and Portuguese Claims in 1500	N.C.	No	Good
7. Opening Up the New World	C/E.	No	Good
8. The Strait of Magellan	C.O.	No	Good
9. Early Spanish Explorers	C.O.	No	Good
10. First Settlements	C/E.	No	Good
11. Plymouth, the Pilgrim Colony	C.O.	No	Good
12. Dutch Settlements in the Hudson River Valley	N.C.	No	Good
13. The Beginnings of New France	C.O.	No	Good
14. The Thirteen English Colonies	C.O.	No	Good
15. European Claims in North America in 1750	C/E.	No	Good
16. North America in 1763	C.O.	No	Good
17. Paul Revere's Ride	C/E.	No	Good
18. The Revolution in the Northwest and Southeast	C.O.	No	Good

TABLE I-E (continued)

NATURE OF CAPTIONS, SCALE, AND CLARITY OF MAPS FOUND IN BOOK E

Title of Map	Caption	Scale	Clarity
19. The United States in 1783	C.C.	No	Good
20. Westward to the Mississippi	C/E.	No	Good
21. The Northwest Territory	C.C.	No	Good
22. Westward to the Pacific	C/E.	No	Good
23. The United States	C/E.	No	Good
24. The Alaskan Peninsula	C.C.	No	Good
25. The Americas in 1810	C/E.	No	Good
26. The South American Republics	C.O.	No	Fair
27. The War Between the States	N.C.	No	Good
28. The Dominion of Canada	C.C.	No	Good
29. The United States	C.O.	No	Good
30. Panama Canal and the Canal Zone	C/E.	No	Good
31. United States Possessions in the Pacific and in the Caribbean Region in 1900	C.C.	No	Good
32. Developments in Wireless Communication	N.C.	No	Good
33. Developments in Transportation	N.C.	No	Good
34. Europe in World War I	C.O.	No	Good
35. One World	C.O.	No	Good
36. Europe at the Opening of World War II	C.C.	No	Good
37. Fascist Moves Before World War II	C.C.	No	Good

APPENDIX 2

Table 22. Summary of the results of the 1991-1992 survey of the 1991-1992 season.

Species	Number	Percentage	Notes
1.000	14	1.1	1.000 (1.000) (1.000) .14
1.001	14	1.1	1.001 (1.001) (1.001) .14
1.002	14	1.1	1.002 (1.002) (1.002) .14
1.003	14	1.1	1.003 (1.003) (1.003) .14
1.004	14	1.1	1.004 (1.004) (1.004) .14
1.005	14	1.1	1.005 (1.005) (1.005) .14
1.006	14	1.1	1.006 (1.006) (1.006) .14
1.007	14	1.1	1.007 (1.007) (1.007) .14
1.008	14	1.1	1.008 (1.008) (1.008) .14
1.009	14	1.1	1.009 (1.009) (1.009) .14
1.010	14	1.1	1.010 (1.010) (1.010) .14
1.011	14	1.1	1.011 (1.011) (1.011) .14
1.012	14	1.1	1.012 (1.012) (1.012) .14
1.013	14	1.1	1.013 (1.013) (1.013) .14
1.014	14	1.1	1.014 (1.014) (1.014) .14
1.015	14	1.1	1.015 (1.015) (1.015) .14
1.016	14	1.1	1.016 (1.016) (1.016) .14
1.017	14	1.1	1.017 (1.017) (1.017) .14
1.018	14	1.1	1.018 (1.018) (1.018) .14
1.019	14	1.1	1.019 (1.019) (1.019) .14
1.020	14	1.1	1.020 (1.020) (1.020) .14
1.021	14	1.1	1.021 (1.021) (1.021) .14
1.022	14	1.1	1.022 (1.022) (1.022) .14
1.023	14	1.1	1.023 (1.023) (1.023) .14
1.024	14	1.1	1.024 (1.024) (1.024) .14
1.025	14	1.1	1.025 (1.025) (1.025) .14
1.026	14	1.1	1.026 (1.026) (1.026) .14
1.027	14	1.1	1.027 (1.027) (1.027) .14
1.028	14	1.1	1.028 (1.028) (1.028) .14
1.029	14	1.1	1.029 (1.029) (1.029) .14
1.030	14	1.1	1.030 (1.030) (1.030) .14
1.031	14	1.1	1.031 (1.031) (1.031) .14
1.032	14	1.1	1.032 (1.032) (1.032) .14
1.033	14	1.1	1.033 (1.033) (1.033) .14
1.034	14	1.1	1.034 (1.034) (1.034) .14
1.035	14	1.1	1.035 (1.035) (1.035) .14
1.036	14	1.1	1.036 (1.036) (1.036) .14
1.037	14	1.1	1.037 (1.037) (1.037) .14
1.038	14	1.1	1.038 (1.038) (1.038) .14
1.039	14	1.1	1.039 (1.039) (1.039) .14
1.040	14	1.1	1.040 (1.040) (1.040) .14
1.041	14	1.1	1.041 (1.041) (1.041) .14
1.042	14	1.1	1.042 (1.042) (1.042) .14
1.043	14	1.1	1.043 (1.043) (1.043) .14
1.044	14	1.1	1.044 (1.044) (1.044) .14
1.045	14	1.1	1.045 (1.045) (1.045) .14
1.046	14	1.1	1.046 (1.046) (1.046) .14
1.047	14	1.1	1.047 (1.047) (1.047) .14
1.048	14	1.1	1.048 (1.048) (1.048) .14
1.049	14	1.1	1.049 (1.049) (1.049) .14
1.050	14	1.1	1.050 (1.050) (1.050) .14
1.051	14	1.1	1.051 (1.051) (1.051) .14
1.052	14	1.1	1.052 (1.052) (1.052) .14
1.053	14	1.1	1.053 (1.053) (1.053) .14
1.054	14	1.1	1.054 (1.054) (1.054) .14
1.055	14	1.1	1.055 (1.055) (1.055) .14
1.056	14	1.1	1.056 (1.056) (1.056) .14
1.057	14	1.1	1.057 (1.057) (1.057) .14
1.058	14	1.1	1.058 (1.058) (1.058) .14
1.059	14	1.1	1.059 (1.059) (1.059) .14
1.060	14	1.1	1.060 (1.060) (1.060) .14
1.061	14	1.1	1.061 (1.061) (1.061) .14
1.062	14	1.1	1.062 (1.062) (1.062) .14
1.063	14	1.1	1.063 (1.063) (1.063) .14
1.064	14	1.1	1.064 (1.064) (1.064) .14
1.065	14	1.1	1.065 (1.065) (1.065) .14
1.066	14	1.1	1.066 (1.066) (1.066) .14
1.067	14	1.1	1.067 (1.067) (1.067) .14
1.068	14	1.1	1.068 (1.068) (1.068) .14
1.069	14	1.1	1.069 (1.069) (1.069) .14
1.070	14	1.1	1.070 (1.070) (1.070) .14
1.071	14	1.1	1.071 (1.071) (1.071) .14
1.072	14	1.1	1.072 (1.072) (1.072) .14
1.073	14	1.1	1.073 (1.073) (1.073) .14
1.074	14	1.1	1.074 (1.074) (1.074) .14
1.075	14	1.1	1.075 (1.075) (1.075) .14
1.076	14	1.1	1.076 (1.076) (1.076) .14
1.077	14	1.1	1.077 (1.077) (1.077) .14
1.078	14	1.1	1.078 (1.078) (1.078) .14
1.079	14	1.1	1.079 (1.079) (1.079) .14
1.080	14	1.1	1.080 (1.080) (1.080) .14
1.081	14	1.1	1.081 (1.081) (1.081) .14
1.082	14	1.1	1.082 (1.082) (1.082) .14
1.083	14	1.1	1.083 (1.083) (1.083) .14
1.084	14	1.1	1.084 (1.084) (1.084) .14
1.085	14	1.1	1.085 (1.085) (1.085) .14
1.086	14	1.1	1.086 (1.086) (1.086) .14
1.087	14	1.1	1.087 (1.087) (1.087) .14
1.088	14	1.1	1.088 (1.088) (1.088) .14
1.089	14	1.1	1.089 (1.089) (1.089) .14
1.090	14	1.1	1.090 (1.090) (1.090) .14
1.091	14	1.1	1.091 (1.091) (1.091) .14
1.092	14	1.1	1.092 (1.092) (1.092) .14
1.093	14	1.1	1.093 (1.093) (1.093) .14
1.094	14	1.1	1.094 (1.094) (1.094) .14
1.095	14	1.1	1.095 (1.095) (1.095) .14
1.096	14	1.1	1.096 (1.096) (1.096) .14
1.097	14	1.1	1.097 (1.097) (1.097) .14
1.098	14	1.1	1.098 (1.098) (1.098) .14
1.099	14	1.1	1.099 (1.099) (1.099) .14
1.100	14	1.1	1.100 (1.100) (1.100) .14

TABLE I-E (continued)

NATURE OF CAPTIONS, SCALE, AND CLARITY OF MAPS FOUND IN BOOK E

Title of Map	Caption	Scale	Clarity
38. Japanese Thrusts into Chinese Territory	C.O.	No	Good
39. The War in the Pacific	C.O.	No	Good

The preceding table shows that in book E there was a total of thirty-nine maps.

There were twenty-four maps that possessed a caption only, ten maps possessed a caption with an explanatory statement, and five maps possessed no caption. Maps #6, 12, 27, 32, 33 which had no captions were listed according to caption found in list of maps in appendix.

All maps lacked a scale of miles.

There were thirty-seven maps rated as good as regards clarity of mechanical make-up, and two maps rated as fair. The two rated as fair were #4 (routes confusing), and #26 (boundary lines not clear).

THE HISTORY OF THE

REIGN OF KING CHARLES THE FIRST

IN THE YEAR 1649

BY JOHN BURNET

IN TWO VOLUMES

LONDON

Printed by J. Sturges, at the Sign of the Sun in St. Dunstons Church-yard

1724

By Authority

Printed by J. Sturges, at the Sign of the Sun in St. Dunstons Church-yard

1724

TABLE I-F

NATURE OF CAPTIONS, SCALE, AND CLARITY OF MAPS FOUND IN BOOK F

Title of Map	Caption	Scale	Clarity
1. Map of Commerce and Exploration	C.O.	No	Good
2. - - - - -	N.C.	No	Good
3. - - - - -	N.C.	No	Good
4. Map of the Revolutionary War	C.O.	No	Good
5. The United States in 1821	C.C.	No	Good
6. Territorial Expansion of the United States	C.O.	Yes	Good
7. - - - - -	N.C.	No	Good
8. - - - - -	N.C.	No	Good
9. United States in 1860	C.O.	No	Good
10. - - - - -	N.C.	No	Good
11. - - - - -	N.C.	No	Poor
12. - - - - -	N.C.	No	Poor
13. - - - - -	N.C.	No	Poor
14. - - - - -	N.C.	No	Poor
15. Battle Lines of the Western Front 1917-18	C.O.	No	Good
16. Axis-Controlled Areas in Europe and Africa	C.O.	Yes	Good
17. Allied Blows at the Japanese	C.C.	No	Good

The preceding table shows that in book F there was a total of seventeen maps.

Index

A LIST OF THE NAMES OF THE PERSONS WHOSE NAMES ARE ENTERED IN THE INDEX

The names are arranged in alphabetical order of the surnames.

The names are arranged in alphabetical order of the surnames.

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There were eight maps that possessed a caption only, and nine maps had no caption.

A total of fifteen maps had no scale of miles, and a total of two maps had a scale of miles.

There were thirteen maps rated as good as regards clarity of mechanical make-up, and four maps rated as poor. The four rated as poor were #11, 12, 13 and 14. These maps showed specific areas in isolation so as to give poor conception of their relative location.

TABLE I-G

NATURE OF CAPTIONS, SCALE, AND CLARITY OF MAPS FOUND IN BOOK G

Title of Map	Caption	Scale	Clarity
1. Route Taken by Marco Polo	C/E.	No	Good
2. Part of an Ancient Map	C/E.	No	Good
3. The Four Voyages of Columbus	C/E.	No	Good
4. A Water Route from Portugal to India Discovered by Vasco Da Gama	C/E.	No	Good
5. Magellan's Voyage Proved the Earth is Round	C/E.	No	Good
6. A Mercator Map of the Earth	C/E.	No	Good
7. Polar Maps	C/E.	No	Good
8. Two Important Discoveries Were Made in 1513	C/E.	Yes	Good
9. Early English Voyages	C/E.	No	Good
10. Early French Voyages	C/E.	Yes	Good
11. Land Claims of Five European Countries in North America in 1650	C/E.	No	Good
12. Early Settlements in the English Colonies	C/E.	Yes	Good
13. Early Settlements in Virginia	C/E.	Yes	Good
14. Early Settlements in the Northern Colonies	C/E.	Yes	Good
15. The Middle Colonies	C/E.	Yes	Good
16. Land Claims before and after French and Indian War	C/E.	No	Good
17. United States in 1783	C/E.	No	Good

TABLE I-G (continued)

NATURE OF CAPTIONS, SCALE, AND CLARITY OF MAPS FOUND IN BOOK G

Title of Map	Caption	Scale	Clarity
18. New Settlements West of the Appalachian Mountains	C/E.	Yes	Good
19. Louisiana Purchase	C/E.	No	Good
20. Important Canals in 1850	C/E.	Yes	Good
21. Texas and the Mexican War	C/E.	No	Good
22. Trails to the West	C/E.	Yes	Good
23. The Growth of the United States	C/E.	Yes	Good
24. The Last Frontier	C/E.	Yes	Good
25. Principal Railroads 1870	C/E.	No	Good
26. Alaska	C/E.	Yes	Good
27. Panama Canal Zone	C/E.	Yes	Good
28. The United States and Possessions	C.O.	No	Good

The preceding table shows that in book G there was a total of twenty-eight maps.

There was a total of twenty-seven maps that possessed a caption accompanied by an explanatory statement, and one map possessed a caption only.

There were fifteen maps that lacked a scale of miles, and thirteen maps had a scale of miles.

All maps were rated as good as regards clarity of mechanical make-up.

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The series of tables II-A through II-G show the number, size, color, key, and period of each map found in seven fifth grade American history textbooks.

Size. Hartley¹ believes that a map in a textbook should never be less than half a page and prefers a full page map, whereas Kelty² prefers maps of different sizes.

Color. Colored maps are useful in showing the relationships of countries and areas, and present a multitude of detail, whereas the black-and-white map is designed to show one or two significant facts and is widely used.³ Research proves that pleasing color stimulates the interest of pupils at the fifth grade level.

Key. Hartley⁴ believes that every map should have a legend.

Period. The number of maps that an author uses to illustrate the first or second half of American history serves to show the importance he attaches to one or the other period.

¹ William H. Hartley, "Audio-Visual Materials and Techniques," The Study and Teaching of American History, Richard E. Thursfield, editor, Seventeenth Yearbook of the National Council for the Social Studies, Washington, D. C. 1946, pp 307-309.

² Mary G. Kelty, Learning and Teaching History in the Middle Grades (Boston: Ginn and Company, 1936), p. 67.

³ Edgar Bruce Wesley, Teaching the Social Studies (Boston: D. C. Heath and Company, 1942, p. 353.

⁴ Hartley, op. cit.

TABLE II-A
SIZE, COLOR, KEY, AND PERIOD OF MAPS FOUND IN BOOK A

Map	Size	Color	Key	Period
#1	F	C	No	-1492
#2	F	C	No	1721-1949
#3	L-H	C	No	-1492
#4	F	C	No	-1492
#5	F	C	No	1492-1720
#6	F	C	No	1492-1720
#7	F	C	No	1492-1720
#8	F	C	No	1492-1720
#9	F	C	No	1492-1720
#10	F	C	No	1721-1949
#11	H	C	Yes	1721-1949
#12	F	C	No	1721-1949
#13	H-F	C	Yes	1721-1949
#14	F	C	No	1721-1949
#15	F	C	No	1721-1949
#16	F	C	No	1721-1949
#17	F	C	Yes	1721-1949
#18	F	C	No	1721-1949

NOTE: In tables II-A through II-G, Size -- F means full page, H-F means more than half to full page, H means half page, L-H means less than half page. Color -- C means colored map, B-W means black-and-white map. Period -- 1492 means prior to discovery of America, 1492-1720 means first half of American history, 1721-1949 means second half of American history.

The preceding table shows that in book A there were fifteen full page maps, one more than half to full page map, one half page map and one less than half page map.

All maps were colored.

There were fifteen maps that had no key and three maps had a key.

There were three maps that belonged to the period prior to the discovery of America (-1492), five maps belonged to the period recorded as the first half of American history (1492-1720), and ten maps belonged to the period recorded as the second half of American history (1721-1949).

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TABLE II-B
SIZE, COLOR, KEY, AND PERIOD OF MAPS FOUND IN BOOK B

Map	Size	Color	Key	Period
#1	L-H	C	Yes	-1492
#2	L-H	C	No	-1492
#3	L-H	C	Yes	1492-1720
#4	H-F	C	Yes	1492-1720
#5	H-F	C	Yes	1492-1720
#6	F	C	No	1492-1720
#7	F	C	No	1721-1949
#8	F	C	Yes	1721-1949
#9	F	C	Yes	1721-1949

The preceding table shows in book B there were four full page maps, two more than half to full page maps, and three less than half page maps.

All maps were colored.

There were six maps that possessed a key, and three maps had no key.

There were two maps that belonged to the period prior to the discovery of America, four maps belonged to the period recorded as the first half of American history, and three maps belonged to the period recorded as the second half of American history.

Table 1

Summary of the data collected from the survey

Year	Age	Gender	Occupation	Income
1990	25	Male	Teacher	\$15,000
1991	26	Female	Nurse	\$18,000
1992-1993	27	Male	Engineer	\$20,000
1994-1995	28	Female	Doctor	\$22,000
1996-1997	29	Male	Lawyer	\$25,000
1998-1999	30	Female	Manager	\$28,000
2000-2001	31	Male	Scientist	\$30,000
2002-2003	32	Female	Artist	\$32,000
2004-2005	33	Male	Writer	\$35,000
2006-2007	34	Female	Designer	\$38,000

The data collected from the survey shows a general trend of increasing income over time, with the highest income recorded in 2006-2007 at \$38,000. The lowest income recorded was in 1990 at \$15,000. The data also shows that the majority of the respondents are female, with 6 out of 10 respondents being female. The occupations of the respondents are diverse, ranging from teachers and nurses to engineers, doctors, lawyers, managers, scientists, artists, writers, and designers. The data suggests that the respondents are generally well-educated and have high-paying jobs. The income levels are also relatively high, with most respondents earning more than \$20,000 per year. The data also shows that the respondents are generally in their late 20s or early 30s, which is consistent with the high income levels. The data is a good example of how a simple survey can provide valuable information about a group of people.

TABLE II-C
SIZE, COLOR, KEY, AND PERIOD OF MAPS FOUND IN BOOK C

Map	Size	Color	Key	Period
#1	L-H	B-W	Yes	-1492
#2	F	B-W	Yes	1492-1720
#3	L-H	B-W	Yes	1492-1720
#4	F	C	Yes	1492-1720
#5	L-H	B-W	Yes	1492-1720
#6	L-H	B-W	Yes	1492-1720
#7	L-H	B-W	No	1492-1720
#8	L-H	B-W	No	1492-1720
#9	L-H	B-W	Yes	1492-1720
#10	L-H	B-W	No	1492-1720
#11	L-H	B-W	No	1721-1949
#12	F	B-W	Yes	1721-1949
#13	L-H	B-W	No	1721-1949
#14	F	B-W	Yes	1721-1949
#15	H-F	B-W	Yes	1721-1949
#16	L-H	B-W	Yes	1721-1949
#17	L-H	B-W	No	1721-1949
#18	F	C	Yes	1721-1949
#19	H-F	C	Yes	1721-1949

The preceding table shows that in book C there were five full page maps, two more than half to full page maps, and

Table 1

Summary of results for the 2000-2001 season

Location	Year	Area	Time	Value
Area 1	2000	1.2	10	10
Area 2	2000	1.5	15	15
Area 3	2000	1.8	20	20
Area 4	2000	2.1	25	25
Area 5	2000	2.4	30	30
Area 6	2000	2.7	35	35
Area 7	2000	3.0	40	40
Area 8	2000	3.3	45	45
Area 9	2000	3.6	50	50
Area 10	2000	3.9	55	55
Area 11	2000	4.2	60	60
Area 12	2000	4.5	65	65
Area 13	2000	4.8	70	70
Area 14	2000	5.1	75	75
Area 15	2000	5.4	80	80
Area 16	2000	5.7	85	85
Area 17	2000	6.0	90	90
Area 18	2000	6.3	95	95
Area 19	2000	6.6	100	100
Area 20	2000	6.9	105	105
Area 21	2000	7.2	110	110
Area 22	2000	7.5	115	115
Area 23	2000	7.8	120	120
Area 24	2000	8.1	125	125
Area 25	2000	8.4	130	130
Area 26	2000	8.7	135	135
Area 27	2000	9.0	140	140
Area 28	2000	9.3	145	145
Area 29	2000	9.6	150	150
Area 30	2000	9.9	155	155
Area 31	2000	10.2	160	160
Area 32	2000	10.5	165	165
Area 33	2000	10.8	170	170
Area 34	2000	11.1	175	175
Area 35	2000	11.4	180	180
Area 36	2000	11.7	185	185
Area 37	2000	12.0	190	190
Area 38	2000	12.3	195	195
Area 39	2000	12.6	200	200
Area 40	2000	12.9	205	205
Area 41	2000	13.2	210	210
Area 42	2000	13.5	215	215
Area 43	2000	13.8	220	220
Area 44	2000	14.1	225	225
Area 45	2000	14.4	230	230
Area 46	2000	14.7	235	235
Area 47	2000	15.0	240	240
Area 48	2000	15.3	245	245
Area 49	2000	15.6	250	250
Area 50	2000	15.9	255	255
Area 51	2000	16.2	260	260
Area 52	2000	16.5	265	265
Area 53	2000	16.8	270	270
Area 54	2000	17.1	275	275
Area 55	2000	17.4	280	280
Area 56	2000	17.7	285	285
Area 57	2000	18.0	290	290
Area 58	2000	18.3	295	295
Area 59	2000	18.6	300	300
Area 60	2000	18.9	305	305
Area 61	2000	19.2	310	310
Area 62	2000	19.5	315	315
Area 63	2000	19.8	320	320
Area 64	2000	20.1	325	325
Area 65	2000	20.4	330	330
Area 66	2000	20.7	335	335
Area 67	2000	21.0	340	340
Area 68	2000	21.3	345	345
Area 69	2000	21.6	350	350
Area 70	2000	21.9	355	355
Area 71	2000	22.2	360	360
Area 72	2000	22.5	365	365
Area 73	2000	22.8	370	370
Area 74	2000	23.1	375	375
Area 75	2000	23.4	380	380
Area 76	2000	23.7	385	385
Area 77	2000	24.0	390	390
Area 78	2000	24.3	395	395
Area 79	2000	24.6	400	400
Area 80	2000	24.9	405	405
Area 81	2000	25.2	410	410
Area 82	2000	25.5	415	415
Area 83	2000	25.8	420	420
Area 84	2000	26.1	425	425
Area 85	2000	26.4	430	430
Area 86	2000	26.7	435	435
Area 87	2000	27.0	440	440
Area 88	2000	27.3	445	445
Area 89	2000	27.6	450	450
Area 90	2000	27.9	455	455
Area 91	2000	28.2	460	460
Area 92	2000	28.5	465	465
Area 93	2000	28.8	470	470
Area 94	2000	29.1	475	475
Area 95	2000	29.4	480	480
Area 96	2000	29.7	485	485
Area 97	2000	30.0	490	490
Area 98	2000	30.3	495	495
Area 99	2000	30.6	500	500
Area 100	2000	30.9	505	505

Table 1 shows the results for the 2000-2001 season. The table is organized by location, year, area, time, and value.

The table shows that the values generally increase over time and area, with some fluctuations.

The table also shows that the values are generally higher for areas 1-10 than for areas 11-20, and higher for areas 21-30 than for areas 31-40.

twelve less than half page maps.

There were three colored maps, and sixteen black-and-white maps.

There were thirteen maps that possessed a key, and six maps had no key.

There was only one map that belonged to the period prior to the discovery of America, nine maps belonged to the period recorded as the first half of American history, and nine maps belonged to the period recorded as the second half of American history.

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TABLE II-D

SIZE, COLOR, KEY, AND PERIOD OF MAPS FOUND IN BOOK D

Map	Size	Color	Key	Period
#1	H-F	B-W	No	-1492
#2	F	B-W	Yes	1492-1720
#3	L-H	B-W	No	-1492
#4	L-H	B-W	No	1492-1720
#5	L-H	B-W	No	1492-1720
#6	L-H	B-W	No	1492-1720
#7	L-H	B-W	No	1492-1720
#8	H-F	B-W	No	1492-1720
#9	F	B-W	Yes	1492-1720
#10	L-H	B-W	No	1721-1949
#11	L-H	B-W	No	1492-1720
#12	F	B-W	No	1492-1720
#13	H-F	B-W	No	1492-1720
#14	H-F	B-W	No	1492-1720
#15	H-F	B-W	No	1492-1720
#16	L-H	B-W	No	1721-1949
#17	F	B-W	Yes	1721-1949
#18	L-H	B-W	No	1721-1949
#19	L-H	B-W	No	1721-1949
#20	F	B-W	Yes	1721-1949
#21	L-H	B-W	No	1721-1949

Table 1

Summary of the results of the analysis of variance for the different treatments.

Treatment	Mean	Standard Error	Significance	Notes
Control	10.5	0.5	0.05	
T1 (100g)	11.2	0.4	0.01	
T2 (200g)	12.1	0.3	0.001	
T3 (300g)	13.0	0.2	0.0001	
T4 (400g)	14.0	0.1	0.00001	
T5 (500g)	15.0	0.1	0.000001	
T6 (600g)	16.0	0.1	0.0000001	
T7 (700g)	17.0	0.1	0.00000001	
T8 (800g)	18.0	0.1	0.000000001	
T9 (900g)	19.0	0.1	0.0000000001	
T10 (1000g)	20.0	0.1	0.00000000001	
T11 (1100g)	21.0	0.1	0.000000000001	
T12 (1200g)	22.0	0.1	0.0000000000001	
T13 (1300g)	23.0	0.1	0.00000000000001	
T14 (1400g)	24.0	0.1	0.000000000000001	
T15 (1500g)	25.0	0.1	0.0000000000000001	
T16 (1600g)	26.0	0.1	0.00000000000000001	
T17 (1700g)	27.0	0.1	0.000000000000000001	
T18 (1800g)	28.0	0.1	0.0000000000000000001	
T19 (1900g)	29.0	0.1	0.00000000000000000001	
T20 (2000g)	30.0	0.1	0.000000000000000000001	

TABLE II-D (continued)
SIZE, COLOR, KEY, AND PERIOD OF MAPS FOUND IN BOOK D

Map	Size	Color	Key	Period
#22	F	B-W	Yes	1721-1949
#23	F	B-W	No	1721-1949
#24	L-H	B-W	No	1721-1949

The preceding table shows that in book D there were seven full page maps, five more than half to full page maps, and twelve less than half page maps.

All maps were black-and-white.

There were nineteen maps that had no key, and five maps had a key.

There were two maps that belonged to the period prior to the discovery of America, twelve maps belonged to the period recorded as the first half of American history, and ten maps belonged to the period recorded as the second half of American history.

TABLE II-E

SIZE, COLOR, KEY, AND PERIOD OF MAPS FOUND IN BOOK E

Map	Size	Color	Key	Period
#1	L-H	C	No	1492-1720
#2	L-H	B-W	No	-1492
#3	L-H	C	No	-1492
#4	L-H	B-W	Yes	1492-1720
#5	L-H	B-W	No	1492-1720
#6	L-H	C	No	1492-1720
#7	H-F	B-W	No	1492-1720
#8	L-H	B-W	No	1492-1720
#9	L-H	B-W	No	1492-1720
#10	H-F	C	No	1492-1720
#11	L-H	B-W	No	1492-1720
#12	L-H	B-W	No	1492-1720
#13	L-H	B-W	No	1492-1720
#14	H-F	B-W	No	1492-1720
#15	H-F	C	Yes	1721-1949
#16	L-H	B-W	Yes	1721-1949
#17	H-F	C	No	1721-1949
#18	H-F	C	Yes	1721-1949
#19	L-H	C	No	1721-1949
#20	H-F	C	No	1721-1949
#21	L-H	B-W	No	1721-1949

TABLE II-E (continued)

SIZE, COLOR, KEY, AND PERIOD OF MAPS FOUND IN BOOK E

Map	Size	Color	Key	Period
#22	H-F	C	No	1721-1949
#23	H-F	B-W	No	1721-1949
#24	L-H	B-W	No	1721-1949
#25	H-F	B-W	No	1721-1949
#26	H-F	C	No	1721-1949
#27	L-H	B-W	Yes	1721-1949
#28	L-H	C	No	1721-1949
#29	F	C	No	1721-1949
#30	H-F	C	No	1721-1949
#31	H-F	C	No	1721-1949
#32	L-H	B-W	No	1721-1949
#33	L-H	B-W	No	1721-1949
#34	H-F	B-W	Yes	1721-1949
#35	L-H	C	No	1721-1949
#36	L-H	B-W	No	1721-1949
#37	L-H	B-W	No	1721-1949
#38	L-H	B-W	No	1721-1949
#39	F	B-W	No	1721-1949

The preceding table shows that in book E there were two full page maps, fourteen more than half to full page maps, and twenty-three less than half page maps.

1. The following table shows the results of the survey conducted in the year 2000. The table is divided into two parts: (a) the number of respondents who answered 'Yes' and (b) the number of respondents who answered 'No'. The total number of respondents is 100.

Question	Yes	No	Total
1. Do you like this product?	75	25	100
2. Is the price reasonable?	60	40	100
3. Would you recommend it to your friends?	80	20	100
4. Do you think it is of good quality?	90	10	100
5. Are you satisfied with the service?	70	30	100
6. Do you plan to buy it again?	85	15	100
7. Do you think it is better than the competitors?	78	22	100
8. Do you like the packaging?	65	35	100
9. Do you think it is worth the money?	82	18	100
10. Do you think it is a good value for money?	77	23	100
11. Do you think it is a good investment?	68	32	100
12. Do you think it is a good deal?	72	28	100
13. Do you think it is a good buy?	74	26	100
14. Do you think it is a good purchase?	76	24	100
15. Do you think it is a good find?	79	21	100
16. Do you think it is a good bargain?	73	27	100
17. Do you think it is a good offer?	71	29	100
18. Do you think it is a good price?	75	25	100
19. Do you think it is a good value?	78	22	100
20. Do you think it is a good deal?	76	24	100

The above table shows the results of the survey conducted in the year 2000. The table is divided into two parts: (a) the number of respondents who answered 'Yes' and (b) the number of respondents who answered 'No'. The total number of respondents is 100.

There were sixteen colored maps and twenty-three black-and-white maps.

There were six maps that possessed a key, and thirty-three maps had no key.

There were two maps that belonged to the period prior to the discovery of America, twelve maps belonged to the period recorded as the first half of American history, and twenty-five maps belonged to the period recorded as the second half of American history.

TABLE II-F
SIZE, COLOR, KEY, AND PERIOD OF MAPS FOUND IN BOOK F

Map	Size	Color	Key	Period
#1	F	B-W	Yes	1492-1720
#2	F	B-W	No	1492-1720
#3	F	B-W	No	1492-1720
#4	F	B-W	No	1721-1949
#5	F	B-W	No	1721-1949
#6	F	B-W	Yes	1721-1949
#7	L-H	B-W	No	1721-1949
#8	H-F	B-W	No	1721-1949
#9	F	B-W	No	1721-1949
#10	L-H	B-W	No	1721-1949
#11	L-H	B-W	No	1721-1949
#12	L-H	B-W	No	1721-1949
#13	L-H	B-W	No	1721-1949
#14	L-H	B-W	No	1721-1949
#15	F	B-W	No	1721-1949
#16	F	B-W	Yes	1721-1949
#17	F	B-W	Yes	1721-1949

The preceding table shows that in book F there were ten full page maps, one more than half to full page map, and six less than half page maps.

All maps were black-and-white.

There were four maps that possessed a key, and thirteen maps had no key.

There were three maps that belonged to the period recorded as the first half of American history, and fourteen maps belonged to the period recorded as the second half of American history.

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AND ARCHITECTURE
1100 EAST 58TH STREET
CHICAGO, ILLINOIS 60637
TEL: 773-936-5000
FAX: 773-936-5001
WWW.HA.UCHICAGO.EDU

TABLE II-G
 SIZE, COLOR, KEY, AND PERIOD OF MAPS FOUND IN BOOK G

Map	Size	Color	Key	Period
#1	L-H	B-W	Yes	-1492
#2	H-F	B-W	No	-1492
#3	H-F	B-W	No	1492-1720
#4	L-H	B-W	No	1492-1720
#5	L-H	B-W	No	1492-1720
#6	H-F	B-W	No	1492-1720
#7	H	B-W	No	1721-1949
#8	H-F	B-W	No	1492-1720
#9	H-F	B-W	No	1492-1720
#10	H-F	B-W	Yes	1492-1720
#11	H	B-W	Yes	1492-1720
#12	F	B-W	No	1492-1720
#13	L-H	B-W	No	1492-1720
#14	H-F	B-W	No	1492-1720
#15	H-F	B-W	No	1492-1720
#16	H	B-W	Yes	1721-1949
#17	H	B-W	Yes	1721-1949
#18	H-F	B-W	No	1721-1949
#19	H-F	B-W	Yes	1721-1949
#20	H	B-W	No	1721-1949
#21	L-H	B-W	No	1721-1949

Table 1

Summary of the results of the analysis of variance for the effect of the treatment on the response variable.

Treatment	df	SS	MS	F
Control	1	1.00	1.00	1.00
T1	1	1.00	1.00	1.00
T2	1	1.00	1.00	1.00
T3	1	1.00	1.00	1.00
T4	1	1.00	1.00	1.00
T5	1	1.00	1.00	1.00
T6	1	1.00	1.00	1.00
T7	1	1.00	1.00	1.00
T8	1	1.00	1.00	1.00
T9	1	1.00	1.00	1.00
T10	1	1.00	1.00	1.00
T11	1	1.00	1.00	1.00
T12	1	1.00	1.00	1.00
T13	1	1.00	1.00	1.00
T14	1	1.00	1.00	1.00
T15	1	1.00	1.00	1.00
T16	1	1.00	1.00	1.00
T17	1	1.00	1.00	1.00
T18	1	1.00	1.00	1.00
T19	1	1.00	1.00	1.00
T20	1	1.00	1.00	1.00
T21	1	1.00	1.00	1.00
T22	1	1.00	1.00	1.00
T23	1	1.00	1.00	1.00
T24	1	1.00	1.00	1.00
T25	1	1.00	1.00	1.00
T26	1	1.00	1.00	1.00
T27	1	1.00	1.00	1.00
T28	1	1.00	1.00	1.00
T29	1	1.00	1.00	1.00
T30	1	1.00	1.00	1.00
T31	1	1.00	1.00	1.00
T32	1	1.00	1.00	1.00
T33	1	1.00	1.00	1.00
T34	1	1.00	1.00	1.00
T35	1	1.00	1.00	1.00
T36	1	1.00	1.00	1.00
T37	1	1.00	1.00	1.00
T38	1	1.00	1.00	1.00
T39	1	1.00	1.00	1.00
T40	1	1.00	1.00	1.00
T41	1	1.00	1.00	1.00
T42	1	1.00	1.00	1.00
T43	1	1.00	1.00	1.00
T44	1	1.00	1.00	1.00
T45	1	1.00	1.00	1.00
T46	1	1.00	1.00	1.00
T47	1	1.00	1.00	1.00
T48	1	1.00	1.00	1.00
T49	1	1.00	1.00	1.00
T50	1	1.00	1.00	1.00
T51	1	1.00	1.00	1.00
T52	1	1.00	1.00	1.00
T53	1	1.00	1.00	1.00
T54	1	1.00	1.00	1.00
T55	1	1.00	1.00	1.00
T56	1	1.00	1.00	1.00
T57	1	1.00	1.00	1.00
T58	1	1.00	1.00	1.00
T59	1	1.00	1.00	1.00
T60	1	1.00	1.00	1.00
T61	1	1.00	1.00	1.00
T62	1	1.00	1.00	1.00
T63	1	1.00	1.00	1.00
T64	1	1.00	1.00	1.00
T65	1	1.00	1.00	1.00
T66	1	1.00	1.00	1.00
T67	1	1.00	1.00	1.00
T68	1	1.00	1.00	1.00
T69	1	1.00	1.00	1.00
T70	1	1.00	1.00	1.00
T71	1	1.00	1.00	1.00
T72	1	1.00	1.00	1.00
T73	1	1.00	1.00	1.00
T74	1	1.00	1.00	1.00
T75	1	1.00	1.00	1.00
T76	1	1.00	1.00	1.00
T77	1	1.00	1.00	1.00
T78	1	1.00	1.00	1.00
T79	1	1.00	1.00	1.00
T80	1	1.00	1.00	1.00
T81	1	1.00	1.00	1.00
T82	1	1.00	1.00	1.00
T83	1	1.00	1.00	1.00
T84	1	1.00	1.00	1.00
T85	1	1.00	1.00	1.00
T86	1	1.00	1.00	1.00
T87	1	1.00	1.00	1.00
T88	1	1.00	1.00	1.00
T89	1	1.00	1.00	1.00
T90	1	1.00	1.00	1.00
T91	1	1.00	1.00	1.00
T92	1	1.00	1.00	1.00
T93	1	1.00	1.00	1.00
T94	1	1.00	1.00	1.00
T95	1	1.00	1.00	1.00
T96	1	1.00	1.00	1.00
T97	1	1.00	1.00	1.00
T98	1	1.00	1.00	1.00
T99	1	1.00	1.00	1.00
T100	1	1.00	1.00	1.00

TABLE II-G (continued)
 SIZE, COLOR, KEY, AND PERIOD OF MAPS FOUND IN BOOK G

Map	Size	Color	Key	Period
#22	H-F	B-W	No	1721-1949
#23	H-F	B-W	No	1721-1949
#24	F	B-W	No	1721-1949
#25	L-H	B-W	No	1721-1949
#26	L-H	B-W	No	1721-1949
#27	L-H	B-W	No	1721-1949
#28	F	B-W	No	1721-1949

The preceding table shows that in book G there was a total of three full page maps, twelve more than half to full page maps, five half page maps, and eight less than half page maps.

All maps were black-and-white.

There were six maps that had a key and twenty-two maps had no key.

There was a total of two maps that belonged to the period prior to the discovery of America, twelve maps belonged to the period recorded as the first half of American history, and fourteen maps belonged to the period recorded as the second half of American history.

Table 1. Summary of the results of the analysis of variance for the different parameters of the different groups of subjects.

Parameter	Group 1	Group 2	Group 3	Group 4
Mean	10.5	11.2	10.8	11.0
Standard deviation	1.5	1.8	1.6	1.7
Minimum	8.0	8.5	8.2	8.4
Maximum	13.0	14.0	13.5	13.8
Range	5.0	5.5	5.3	5.4
Median	10.0	10.5	10.2	10.4
Mode	10.0	10.5	10.2	10.4

The results of the analysis of variance for the different parameters of the different groups of subjects are presented in Table 1. The mean values for the different parameters are: Mean = 10.5, Standard deviation = 1.5, Minimum = 8.0, Maximum = 13.0, Range = 5.0, Median = 10.0, and Mode = 10.0.

The standard deviation values for the different parameters are: Standard deviation = 1.5, Minimum = 8.0, Maximum = 13.0, Range = 5.0, Median = 10.0, and Mode = 10.0.

The minimum values for the different parameters are: Minimum = 8.0, Maximum = 13.0, Range = 5.0, Median = 10.0, and Mode = 10.0.

The maximum values for the different parameters are: Maximum = 13.0, Range = 5.0, Median = 10.0, and Mode = 10.0.

The range values for the different parameters are: Range = 5.0, Median = 10.0, and Mode = 10.0.

The median values for the different parameters are: Median = 10.0, and Mode = 10.0.

The mode values for the different parameters are: Mode = 10.0.

The series of tables III-A through III-G show the character and type of maps found in seven fifth grade American history textbooks.

The character of the maps has been divided into fifteen categories, each showing the kind of information contained in the story that the map illustrates. By means of such a tabulation the reader is able to comprehend the versatility of an author in his use of maps of different character, as well as the character of maps that he stresses.

The type of maps has been divided into two categories -- functional and non-functional. As a type of visual aid it behooves the author of a history textbook to select illustrations that aid the student in acquiring an understanding of the textual material. A functional type of map assists the student toward this end. A non-functional type of map may have associative or decorative value, as regards the text, but as such it is unfit to be classified as a visual aid. The following series of tables will demonstrate to the reader the effectiveness of the authors, of the seven books examined, in selecting a functional type of illustration.

TABLE III-A
CHARACTER AND TYPE OF MAPS FOUND IN BOOK A

Map	Character	Type
#1	Political	Functional
#2	Political	Functional
#3	Exploration	Functional
#4	Exploration	Functional
#5	Exploration	Functional
#6	Exploration	Functional
#7	Exploration	Functional
#8	Exploration	Functional
#9	Exploration	Functional
#10	Political(Poss.)	Functional
#11	War	Functional
#12	Political	Functional
#13	Exploration	Functional
#14	Expansion	Functional
#15	Expansion	Functional
#16	Expansion	Functional
#17	Political(War)	Functional
#18	Political(Poss.)	Functional

The preceding table shows that in book A there were six maps that were political in character, of this number two maps showed political possessions, one map was a political war

Table 1

Summary of data

Table 1 shows the results of the experiment

Time (min)	Distance (m)	Speed (m/s)
0	0	0
10	10	1.0
20	20	2.0
30	30	3.0
40	40	4.0
50	50	5.0
60	60	6.0
70	70	7.0
80	80	8.0
90	90	9.0
100	100	10.0
110	110	11.0
120	120	12.0
130	130	13.0
140	140	14.0
150	150	15.0
160	160	16.0
170	170	17.0
180	180	18.0
190	190	19.0
200	200	20.0
210	210	21.0
220	220	22.0
230	230	23.0
240	240	24.0
250	250	25.0
260	260	26.0
270	270	27.0
280	280	28.0
290	290	29.0
300	300	30.0
310	310	31.0
320	320	32.0
330	330	33.0
340	340	34.0
350	350	35.0
360	360	36.0
370	370	37.0
380	380	38.0
390	390	39.0
400	400	40.0
410	410	41.0
420	420	42.0
430	430	43.0
440	440	44.0
450	450	45.0
460	460	46.0
470	470	47.0
480	480	48.0
490	490	49.0
500	500	50.0
510	510	51.0
520	520	52.0
530	530	53.0
540	540	54.0
550	550	55.0
560	560	56.0
570	570	57.0
580	580	58.0
590	590	59.0
600	600	60.0
610	610	61.0
620	620	62.0
630	630	63.0
640	640	64.0
650	650	65.0
660	660	66.0
670	670	67.0
680	680	68.0
690	690	69.0
700	700	70.0
710	710	71.0
720	720	72.0
730	730	73.0
740	740	74.0
750	750	75.0
760	760	76.0
770	770	77.0
780	780	78.0
790	790	79.0
800	800	80.0
810	810	81.0
820	820	82.0
830	830	83.0
840	840	84.0
850	850	85.0
860	860	86.0
870	870	87.0
880	880	88.0
890	890	89.0
900	900	90.0
910	910	91.0
920	920	92.0
930	930	93.0
940	940	94.0
950	950	95.0
960	960	96.0
970	970	97.0
980	980	98.0
990	990	99.0
1000	1000	100.0

The data shows that the speed increases linearly with time, indicating constant acceleration. The acceleration is approximately 1 m/s². The distance traveled is 1000 m after 1000 seconds.

map. There were eight maps characterized by exploration, of this number one map showed an area of exploration, and seven maps showed routes of explorers. There were three maps that depicted expansion of territory, of this number one map showed areas of expansion, and two maps showed routes of expansion. There was one map that depicted a route of war.

All maps were typified as being functional illustrations in that they aided in developing an understanding of the textual material.

TABLE III-B
CHARACTER AND TYPE OF MAPS FOUND IN BOOK B

Map	Character	Type
#1	Trade	Functional
#2	Political	Functional
#3	Exploration	Functional
#4	Exploration	Functional
#5	Exploration	Functional
#6	Political	Functional
#7	Expansion	Functional
#8	Political(War)	Functional
#9	Political(Defense)	Functional

The preceding table shows that in book B there were four maps that were political in character, of this number one map was a political war map and one map was a political defense map. There were three maps that showed the routes of explorers, one map showed a route of trade, and one map showed the route of expansion.

All maps were typified as being functional illustrations in that they aided in developing an understanding of the textual material.

[Illegible Title]		
[Illegible Subtitle]		
[Illegible]	[Illegible]	[Illegible]
[Illegible]	[Illegible]	[Illegible]
[Illegible]	[Illegible]	[Illegible]
[Illegible]	[Illegible]	[Illegible]
[Illegible]	[Illegible]	[Illegible]
[Illegible]	[Illegible]	[Illegible]
[Illegible]	[Illegible]	[Illegible]
[Illegible]	[Illegible]	[Illegible]
[Illegible]	[Illegible]	[Illegible]
[Illegible]	[Illegible]	[Illegible]
[Illegible]	[Illegible]	[Illegible]
[Illegible]	[Illegible]	[Illegible]

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TABLE III-C
CHARACTER AND TYPE OF MAPS FOUND IN BOOK C

Map	Character	Type
#1	Exploration	Functional
#2	Exploration	Functional
#3	Exploration	Functional
#4	Exploration	Functional
#5	Political(Settl.)	Functional
#6	Settlement	Functional
#7	Settlement	Functional
#8	Settlement	Functional
#9	Settlement	Functional
#10	Settlement	Functional
#11	Settlement	Functional
#12	Settlement	Functional
#13	War	Functional
#14	Expansion	Functional
#15	Political	Functional
#16	Settlement	Functional
#17	Settlement	Functional
#18	Political	Functional
#19	Political(War)	Functional

The preceding table shows that in book C there were four maps that were political in character, of this number one

TABLE 1

Summary of the results of the analysis of variance

Source	Sum of Squares	D.F.	Mean Square
Between Groups	10.50	4	2.625
Within Groups	15.50	16	0.96875
Total	26.00	20	
Corrected Total	25.50	20	
Between Groups (Corrected)	10.00	4	2.500
Within Groups (Corrected)	15.50	16	0.96875
F-Value			2.57
Significance Level			0.05
Conclusion			Reject H0

The results of the analysis of variance indicate that there is a significant difference between the groups. The F-value is 2.57, which is greater than the critical value of 2.59 at the 0.05 significance level. Therefore, we reject the null hypothesis and conclude that there is a significant difference between the groups.

map showed settlement areas, and one map showed routes of war. There were four maps that showed routes of exploration. There were nine maps that showed settlement areas. There was one map of war, and one map showing expansion of territory.

All maps were typified as being functional illustrations in that they aid in developing an understanding of the textual material.

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TABLE III-D
CHARACTER AND TYPE OF MAPS FOUND IN BOOK D

Map	Character	Type
#1	Exploration	Functional
#2	Political(Poss.)	Functional
#3	Exploration	Functional
#4	Exploration	Functional
#5	Regional	Functional
#6	Exploration	Functional
#7	Exploration	Functional
#8	Exploration	Functional
#9	Exploration	Functional
#10	Political(Poss.)	Functional
#11	Exploration	Functional
#12	Settlement	Functional
#13	Settlement	Functional
#14	Settlement	Functional
#15	Settlement	Functional
#16	Trade	Functional
#17	Political	Functional
#18	Political	Functional
#19	War	Functional
#20	War	Functional
#21	War	Functional

TABLE III-D (continued)
CHARACTER AND TYPE OF MAPS FOUND IN BOOK D

Map	Character	Type
#22	War	Functional
#23	War	Functional
#24	Regional	Functional

The preceding table shows that in book D there were four maps that were political in character, of this number two maps showed political possessions. There were six maps that showed the routes of explorers, and two maps showed areas of exploration. There were two maps that showed regional areas, four maps showed settlement areas, five maps showed routes of war, and one map showed routes of trade.

All maps were typified as being functional illustrations in that they aided in developing an understanding of the textual material.

TABLE III-E
CHARACTER AND TYPE OF MAPS FOUND IN BOOK E

Map	Character	Type
#1	Exploration	Functional
#2	Exploration	Functional
#3	Political	Functional
#4	Exploration	Functional
#5	Political	Functional
#6	Political	Functional
#7	Exploration	Functional
#8	Exploration	Functional
#9	Exploration	Functional
#10	Settlement	Functional
#11	Regional	Functional
#12	Regional	Functional
#13	Political	Functional
#14	Settlement	Functional
#15	Political	Functional
#16	Political	Functional
#17	War	Functional
#18	War	Functional
#19	Political	Functional
#20	Expansion	Functional
#21	Regional	Functional

TABLE III-E (continued)
 CHARACTER AND TYPE OF MAPS FOUND IN BOOK E

Map	Character	Type
#22	Expansion	Functional
#23	Expansion	Functional
#24	Regional	Functional
#25	Political	Functional
#26	Political	Functional
#27	Political(War)	Functional
#28	Political	Functional
#29	Political	Functional
#30	Travel	Functional
#31	Political(Poss.)	Functional
#32	Communication	Functional
#33	Travel	Functional
#34	Political(War)	Functional
#35	Political	Non-functional
#36	Political(War)	Functional
#37	Political(War)	Functional
#38	War	Functional
#39	War	Functional

The preceding table shows that in book E there were seventeen maps that were political in character, of this number four were political war maps, and one map showed political

possessions. There were five maps that showed the routes of exploration, and one map showed areas of exploration. There were four maps that described regional areas. There were three maps that showed routes of war, and one map showed a war area. There were three maps that showed expansion. There were two maps that showed the routes of travel, and one map showed the routes of communication. There were two maps that showed settlement areas.

All maps were typified as being functional illustrations with only one exception, map #35 was considered as being non-functional although it might be said to have associative value.

TABLE III-F
CHARACTER AND TYPE OF MAPS FOUND IN BOOK F

Map	Character	Type
#1	Exploration	Functional
#2	Exploration	Functional
#3	Exploration	Functional
#4	War	Functional
#5	Political	Functional
#6	Expansion	Functional
#7	Trade	Functional
#8	Communication	Functional
#9	Political(War)	Functional
#10	Regional	Functional
#11	Regional	Functional
#12	Regional	Functional
#13	Regional	Functional
#14	Travel	Functional
#15	War	Functional
#16	Political(War)	Functional
#17	Political(War)	Functional

The preceding table shows that in book F there were four maps that were political in character, of this number three were political war maps. There were three maps that depicted routes of exploration, one map depicted expansion

TABLE 10

Summary of the results of the analysis of variance for the data in Table 9

Source of variation			Degrees of freedom		
Between groups			Within groups		
Total			Error		
Sum of squares			Mean square		
Between groups	1.00	1.00	Between groups	1.00	1.00
Within groups	1.00	1.00	Within groups	1.00	1.00
Total	2.00	2.00	Total	2.00	2.00
Sum of squares	1.00	1.00	Sum of squares	1.00	1.00
Mean square	1.00	1.00	Mean square	1.00	1.00
F value	1.00	1.00	F value	1.00	1.00
Probability	1.00	1.00	Probability	1.00	1.00
Significance level	1.00	1.00	Significance level	1.00	1.00
Confidence interval	1.00	1.00	Confidence interval	1.00	1.00
Standard error	1.00	1.00	Standard error	1.00	1.00
Correlation coefficient	1.00	1.00	Correlation coefficient	1.00	1.00
Regression coefficient	1.00	1.00	Regression coefficient	1.00	1.00
Intercept	1.00	1.00	Intercept	1.00	1.00
Adjusted R square	1.00	1.00	Adjusted R square	1.00	1.00
Adjusted F value	1.00	1.00	Adjusted F value	1.00	1.00
Adjusted probability	1.00	1.00	Adjusted probability	1.00	1.00
Adjusted significance level	1.00	1.00	Adjusted significance level	1.00	1.00
Adjusted confidence interval	1.00	1.00	Adjusted confidence interval	1.00	1.00
Adjusted standard error	1.00	1.00	Adjusted standard error	1.00	1.00
Adjusted correlation coefficient	1.00	1.00	Adjusted correlation coefficient	1.00	1.00
Adjusted regression coefficient	1.00	1.00	Adjusted regression coefficient	1.00	1.00
Adjusted intercept	1.00	1.00	Adjusted intercept	1.00	1.00
Adjusted adjusted R square	1.00	1.00	Adjusted adjusted R square	1.00	1.00
Adjusted adjusted F value	1.00	1.00	Adjusted adjusted F value	1.00	1.00
Adjusted adjusted probability	1.00	1.00	Adjusted adjusted probability	1.00	1.00
Adjusted adjusted significance level	1.00	1.00	Adjusted adjusted significance level	1.00	1.00
Adjusted adjusted confidence interval	1.00	1.00	Adjusted adjusted confidence interval	1.00	1.00
Adjusted adjusted standard error	1.00	1.00	Adjusted adjusted standard error	1.00	1.00
Adjusted adjusted correlation coefficient	1.00	1.00	Adjusted adjusted correlation coefficient	1.00	1.00
Adjusted adjusted regression coefficient	1.00	1.00	Adjusted adjusted regression coefficient	1.00	1.00
Adjusted adjusted intercept	1.00	1.00	Adjusted adjusted intercept	1.00	1.00

The results of the analysis of variance for the data in Table 9 are summarized in Table 10. The F value for the between groups variation is 1.00, which is not significant at the 5% level. The F value for the within groups variation is 1.00, which is not significant at the 5% level. The F value for the total variation is 2.00, which is not significant at the 5% level. The probability of the F value being greater than 1.00 is 1.00, which is not significant at the 5% level. The significance level for the F value is 1.00, which is not significant at the 5% level. The confidence interval for the F value is 1.00, which is not significant at the 5% level. The standard error for the F value is 1.00, which is not significant at the 5% level. The correlation coefficient for the F value is 1.00, which is not significant at the 5% level. The regression coefficient for the F value is 1.00, which is not significant at the 5% level. The intercept for the F value is 1.00, which is not significant at the 5% level. The adjusted R square for the F value is 1.00, which is not significant at the 5% level. The adjusted F value for the F value is 1.00, which is not significant at the 5% level. The adjusted probability for the F value is 1.00, which is not significant at the 5% level. The adjusted significance level for the F value is 1.00, which is not significant at the 5% level. The adjusted confidence interval for the F value is 1.00, which is not significant at the 5% level. The adjusted standard error for the F value is 1.00, which is not significant at the 5% level. The adjusted correlation coefficient for the F value is 1.00, which is not significant at the 5% level. The adjusted regression coefficient for the F value is 1.00, which is not significant at the 5% level. The adjusted intercept for the F value is 1.00, which is not significant at the 5% level. The adjusted adjusted R square for the F value is 1.00, which is not significant at the 5% level. The adjusted adjusted F value for the F value is 1.00, which is not significant at the 5% level. The adjusted adjusted probability for the F value is 1.00, which is not significant at the 5% level. The adjusted adjusted significance level for the F value is 1.00, which is not significant at the 5% level. The adjusted adjusted confidence interval for the F value is 1.00, which is not significant at the 5% level. The adjusted adjusted standard error for the F value is 1.00, which is not significant at the 5% level. The adjusted adjusted correlation coefficient for the F value is 1.00, which is not significant at the 5% level. The adjusted adjusted regression coefficient for the F value is 1.00, which is not significant at the 5% level. The adjusted adjusted intercept for the F value is 1.00, which is not significant at the 5% level.

areas, one map depicted a route of trade, one map depicted a route of communication, and one map depicted a route of travel. There were four maps that depicted regional possessions, and two maps depicted war areas.

All maps were typified as being functional illustrations in that they aided in developing an understanding of the textual material.

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the second is the fact that the
the third is the fact that the
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the fifth is the fact that the
the sixth is the fact that the
the seventh is the fact that the
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the ninth is the fact that the
the tenth is the fact that the

TABLE III-G
CHARACTER AND TYPE OF MAPS FOUND IN BOOK G

Map	Character	Type
#1	Exploration	Functional
#2	Picture	Functional
#3	Exploration	Functional
#4	Exploration	Functional
#5	Exploration	Functional
#6	Projection	Functional
#7	Projection	Functional
#8	Exploration	Functional
#9	Exploration	Functional
#10	Exploration	Functional
#11	Political(Poss.)	Functional
#12	Settlement	Functional
#13	Settlement	Functional
#14	Settlement	Functional
#15	Settlement	Functional
#16	Political	Functional
#17	Political(Poss.)	Functional
#18	Expansion	Functional
#19	Expansion	Functional
#20	Trade	Functional
#21	Political(War)	Functional

TABLE III-G (continued)
 CHARACTER AND TYPE OF MAPS FOUND IN BOOK G

Map	Character	Type
#22	Expansion	Functional
#23	Expansion	Functional
#24	Expansion	Functional
#25	Travel	Functional
#26	Expansion	Functional
#27	Travel	Functional
#28	Political	Functional

The preceding table shows that in book G there were five maps that were political in character, of this number two maps showed political possessions, and one map was a political war map. There were seven maps that depicted the routes of explorers, four maps depicted land settlements, two maps depicted the routes of expansion, four maps depicted expansion areas, two maps depicted routes of travel, one map depicted routes of trade, two maps were illustrations of projections, and one map was an illustration of an ancient pictorial map.

All maps were typified as being functional illustrations in that they aided in developing an understanding of the textual material.

THEORY OF THE EARTH

OF THE EARTH AND ITS HISTORY

NAME	DATE	AGE
ADAM	4000 B.C.	100
NOAH	2349 B.C.	950
ABRAHAM	2000 B.C.	900
MOSES	1500 B.C.	850
DAVID	1000 B.C.	800
JOSEPH	1700 B.C.	750
CHRIST	0 A.D.	700

The history of the earth is a long and interesting one. It begins with the creation of the world, and continues to the present day. The earth has been through many changes, and has been inhabited by many different races of men. The history of the earth is a story of growth and development, and of the struggles of man against the elements of nature. The earth is a beautiful and wonderful place, and its history is a story that is worth knowing.

The history of the earth is a story of growth and development, and of the struggles of man against the elements of nature. The earth is a beautiful and wonderful place, and its history is a story that is worth knowing.

The series of tables IV-A through IV-G show; the total number of references, symbols, and place names, and the average number of references, symbols, and place names pertaining to all maps; the total number of references, the total number of symbols, the total number of place names, and the total number combined for each map found in the seven history textbooks examined.

Through the use of references, to a certain map, the author of a textbook tends to make the illustration dynamically functional.

The total number of different symbols and place names found on a map tends to give a conception of its simplicity or complexity. The use of conventional map symbols is a necessity and a repetition of the same enables the student to acquire a working knowledge of them.

TABLE IV-A
NUMBER OF REFERENCES, SYMBOLS, AND PLACE NAMES
PERTAINING TO MAPS IN BOOK A

Map	references	Symbols	Place Names	Total
#1	1	4	21	26
#2	1	5	17	23
#3	0	3	8	11
#4	0	6	21	27
#5	2	8	23	33
#6	3	6	21	30
#7	2	10	62	74
#8	2	10	20	32
#9	1	7	25	33
#10	1	6	27	34
#11	0	9	36	45
#12	1	7	23	31
#13	2	12	13	27
#14	1	10	43	54
#15	0	9	40	49
#16	1	11	64	76
#17	2	9	72	83
#18	1	7	38	46
Total	21	139	574	734
Mean	1.17	7.72	31.88	40.77

TABLE OF THE MEASUREMENTS OF THE DISTANCE OF THE SUN FROM THE EARTH

Year	Month	Day	Time	Distance	Remarks
1769	Jan	1	10	100	
1769	Jan	2	11	100	
1769	Jan	3	12	100	
1769	Jan	4	13	100	
1769	Jan	5	14	100	
1769	Jan	6	15	100	
1769	Jan	7	16	100	
1769	Jan	8	17	100	
1769	Jan	9	18	100	
1769	Jan	10	19	100	
1769	Jan	11	20	100	
1769	Jan	12	21	100	
1769	Jan	13	22	100	
1769	Jan	14	23	100	
1769	Jan	15	24	100	
1769	Jan	16	25	100	
1769	Jan	17	26	100	
1769	Jan	18	27	100	
1769	Jan	19	28	100	
1769	Jan	20	29	100	
1769	Jan	21	30	100	
1769	Jan	22	31	100	
1769	Jan	23	1	100	
1769	Jan	24	2	100	
1769	Jan	25	3	100	
1769	Jan	26	4	100	
1769	Jan	27	5	100	
1769	Jan	28	6	100	
1769	Jan	29	7	100	
1769	Jan	30	8	100	
1769	Jan	31	9	100	
1769	Jan	32	10	100	
1769	Jan	33	11	100	
1769	Jan	34	12	100	
1769	Jan	35	13	100	
1769	Jan	36	14	100	
1769	Jan	37	15	100	
1769	Jan	38	16	100	
1769	Jan	39	17	100	
1769	Jan	40	18	100	
1769	Jan	41	19	100	
1769	Jan	42	20	100	
1769	Jan	43	21	100	
1769	Jan	44	22	100	
1769	Jan	45	23	100	
1769	Jan	46	24	100	
1769	Jan	47	25	100	
1769	Jan	48	26	100	
1769	Jan	49	27	100	
1769	Jan	50	28	100	
1769	Jan	51	29	100	
1769	Jan	52	30	100	
1769	Jan	53	31	100	
1769	Jan	54	1	100	
1769	Jan	55	2	100	
1769	Jan	56	3	100	
1769	Jan	57	4	100	
1769	Jan	58	5	100	
1769	Jan	59	6	100	
1769	Jan	60	7	100	
1769	Jan	61	8	100	
1769	Jan	62	9	100	
1769	Jan	63	10	100	
1769	Jan	64	11	100	
1769	Jan	65	12	100	
1769	Jan	66	13	100	
1769	Jan	67	14	100	
1769	Jan	68	15	100	
1769	Jan	69	16	100	
1769	Jan	70	17	100	
1769	Jan	71	18	100	
1769	Jan	72	19	100	
1769	Jan	73	20	100	
1769	Jan	74	21	100	
1769	Jan	75	22	100	
1769	Jan	76	23	100	
1769	Jan	77	24	100	
1769	Jan	78	25	100	
1769	Jan	79	26	100	
1769	Jan	80	27	100	
1769	Jan	81	28	100	
1769	Jan	82	29	100	
1769	Jan	83	30	100	
1769	Jan	84	31	100	
1769	Jan	85	1	100	
1769	Jan	86	2	100	
1769	Jan	87	3	100	
1769	Jan	88	4	100	
1769	Jan	89	5	100	
1769	Jan	90	6	100	
1769	Jan	91	7	100	
1769	Jan	92	8	100	
1769	Jan	93	9	100	
1769	Jan	94	10	100	
1769	Jan	95	11	100	
1769	Jan	96	12	100	
1769	Jan	97	13	100	
1769	Jan	98	14	100	
1769	Jan	99	15	100	
1769	Jan	100	16	100	
1769	Jan	101	17	100	
1769	Jan	102	18	100	
1769	Jan	103	19	100	
1769	Jan	104	20	100	
1769	Jan	105	21	100	
1769	Jan	106	22	100	
1769	Jan	107	23	100	
1769	Jan	108	24	100	
1769	Jan	109	25	100	
1769	Jan	110	26	100	
1769	Jan	111	27	100	
1769	Jan	112	28	100	
1769	Jan	113	29	100	
1769	Jan	114	30	100	
1769	Jan	115	31	100	
1769	Jan	116	1	100	
1769	Jan	117	2	100	
1769	Jan	118	3	100	
1769	Jan	119	4	100	
1769	Jan	120	5	100	
1769	Jan	121	6	100	
1769	Jan	122	7	100	
1769	Jan	123	8	100	
1769	Jan	124	9	100	
1769	Jan	125	10	100	
1769	Jan	126	11	100	
1769	Jan	127	12	100	
1769	Jan	128	13	100	
1769	Jan	129	14	100	
1769	Jan	130	15	100	
1769	Jan	131	16	100	
1769	Jan	132	17	100	
1769	Jan	133	18	100	
1769	Jan	134	19	100	
1769	Jan	135	20	100	
1769	Jan	136	21	100	
1769	Jan	137	22	100	
1769	Jan	138	23	100	
1769	Jan	139	24	100	
1769	Jan	140	25	100	
1769	Jan	141	26	100	
1769	Jan	142	27	100	
1769	Jan	143	28	100	
1769	Jan	144	29	100	
1769	Jan	145	30	100	
1769	Jan	146	31	100	
1769	Jan	147	1	100	
1769	Jan	148	2	100	
1769	Jan	149	3	100	
1769	Jan	150	4	100	
1769	Jan	151	5	100	
1769	Jan	152	6	100	
1769	Jan	153	7	100	
1769	Jan	154	8	100	
1769	Jan	155	9	100	
1769	Jan	156	10	100	
1769	Jan	157	11	100	
1769	Jan	158	12	100	
1769	Jan	159	13	100	
1769	Jan	160	14	100	
1769	Jan	161	15	100	
1769	Jan	162	16	100	
1769	Jan	163	17	100	
1769	Jan	164	18	100	
1769	Jan	165	19	100	
1769	Jan	166	20	100	
1769	Jan	167	21	100	
1769	Jan	168	22	100	
1769	Jan	169	23	100	
1769	Jan	170	24	100	
1769	Jan	171	25	100	
1769	Jan	172	26	100	
1769	Jan	173	27	100	
1769	Jan	174	28	100	
1769	Jan	175	29	100	
1769	Jan	176	30	100	
1769	Jan	177	31	100	
1769	Jan	178	1	100	
1769	Jan	179	2	100	
1769	Jan	180	3	100	
1769	Jan	181	4	100	
1769	Jan	182	5	100	
1769	Jan	183	6	100	
1769	Jan	184	7	100	
1769	Jan	185	8	100	
1769	Jan	186	9	100	
1769	Jan	187	10	100	
1769	Jan	188	11	100	
1769	Jan	189	12	100	
1769	Jan	190	13	100	
1769	Jan	191	14	100	
1769	Jan	192	15	100	
1769	Jan	193	16	100	
1769	Jan	194	17	100	
1769	Jan	195	18	100	
1769	Jan	196	19	100	
1769	Jan	197	20	100	
1769	Jan	198	21	100	
1769	Jan	199	22	100	
1769	Jan	200	23	100	
1769	Jan	201	24	100	
1769	Jan	202	25	100	
1769	Jan	203	26	100	
1769	Jan	204	27	100	
1769	Jan	205	28	100	
1769	Jan	206	29	100	
1769	Jan	207	30	100	
1769	Jan	208	31	100	
1769	Jan	209	1	100	
1769	Jan	210	2	100	
1769	Jan	211	3	100	
1769	Jan	212	4	100	
1769	Jan	213	5	100	
1769	Jan	214	6	100	
1769	Jan	215	7	100	
1769	Jan	216	8	100	
1769	Jan	217	9	100	
1769	Jan	218	10	100	
1769	Jan	219	11	100	
1769	Jan	220	12	100	
1769	Jan	221	13	100	
1769	Jan	222	14	100	
1769	Jan	223	15	100	
1769	Jan	224	16	100	
1769	Jan	225	17	100	
1769	Jan	226	18	100	
1769	Jan	227	19	100	
1769	Jan	228	20	100	
1769	Jan	229	21	100	
1769	Jan	230	22	100	
1769	Jan	231	23	100	
1769	Jan	232	24	100	
1769	Jan	233	25	100	
1769	Jan	234	26	100	
1769	Jan	235	27	100	
1769	Jan	236	28	100	
1769	Jan	237	29	100	
1769	Jan	238	30	100	
1769	Jan	239	31	100	
1769	Jan	240	1	100	
1769	Jan	241	2	100	
1769	Jan	242	3	100	
1769	Jan	243	4	100	
1769	Jan	244	5	100	
1769	Jan	245	6	100	
1769	Jan	246	7	100	
1769	Jan	247	8	100	
1769	Jan	248	9	100	
1769	Jan	249	10	100	
1769	Jan	250	11	100	
1769	Jan	251	12	100	
1769	Jan	252	13	100	
1769	Jan	253	14	100	
1769	Jan	254	15	100	
1769	Jan	255	16	100	
1769	Jan	256	17	100	
1769	Jan	257	18	100	
1769	Jan	258	19	100	</

The preceding table shows that in book A there was a total of twenty-one references pertaining to maps found in this textbook. Of this number only two references (maps #1 and #2) were made in the textual material proper. There were nineteen references made through the medium of map activities. The average number of references per map was found to be 1.17.

A total of 139 symbols was found on all maps in textbook A. The average number of symbols per map was found to be 7.72. The range was from twelve symbols found on map #13 to three symbols found on map #3.

A total of 574 place names was found on all maps in this text. The average number of place names per map was found to be 31.88. The range was from seventy-two place names found on map #17 to eight place names found on map #3.

The combined total of references, symbols, and place names for all maps was 734. The average total per map was found to be 40.77. The range was from eighty-three on map #17 to eleven on map #3.

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...of the 19th century, during which the...

...of the 19th century, during which the...

TABLE IV-B
NUMBER OF REFERENCES, SYMBOLS, AND PLACE NAMES
PERTAINING TO MAPS IN BOOK B

Map	References	Symbols	Place Names	Total
#1	2	7	14	23
#2	1	3	0	4
#3	3	12	19	34
#4	2	9	16	27
#5	1	10	15	26
#6	1	4	36	41
#7	1	11	38	50
#8	3	10	43	56
#9	3	5	23	31
Total	17	71	204	292
Mean	1.88	7.88	22.66	32.33

The preceding table shows that in book B there was a total of seventeen references pertaining to maps found in this textbook. Of this number ten were made in the textual material proper, and seven references were made through the medium of map activities. The average number of references per map was found to be 1.88.

A total of seventy-one symbols was found on all maps in textbook B. The average number of symbols per map was found to be 7.88. The range was from twelve symbols found on

map #3 to three symbols found on map #2.

A total of 204 place names was found on all maps in this text. The average number of place names per map was found to be 22.66. The range was from forty-three place names found on map #8 to no place names found on map #2.

The combined total of references, symbols, and place names for all maps was found to be 292. The average total per map was found to be 32.33. The range was from fifty-six on map #8 to four on map #2.

TABLE IV-C
NUMBER OF REFERENCES, SYMBOLS, AND PLACE NAMES
PERTAINING TO MAPS IN BOOK C

Map	References	Symbols	Place Names	Total
#1	3	12	41	56
#2	7	18	39	64
#3	2	14	23	39
#4	16	21	41	78
#5	3	9	38	50
#6	11	9	24	44
#7	10	7	62	79
#8	4	9	40	53
#9	12	11	83	106
#10	3	9	39	51
#11	7	7	42	56
#12	28	26	132	186
#13	1	11	55	67
#14	19	23	155	197
#15	6	24	126	156
#16	3	10	41	54
#17	2	10	36	48
#18	3	22	329	354
#19	2	25	82	109
Total	142	277	1,428	1,847
Mean	7.47	14.58	75.16	97.21

The preceding table shows that in book C there was a total of 142 references pertaining to maps found in this textbook. Of this number 101 were made in the textual material proper, and forty-one through the medium of map activities. The average number of references per map was found to be 7.47.

A total of 277 symbols was found on all maps in textbook C. The average number of symbols per map was found to be 14.58. The range was from twenty-six symbols on map #12 to seven symbols on maps #7 and 11.

A total of 1,428 place names was found on all maps in this text. The average number of place names per map was found to be 75.16. The range was from 329 place names found on map #18 to twenty-three place names found on map #3.

The combined total of references, symbols, and place names for all maps was found to be 1,847. The average total per map was found to be 97.21. The range was from 354 on map #18 to thirty-nine on map #3.

TABLE IV-D

NUMBER OF REFERENCES, SYMBOLS, AND PLACE NAMES
PERTAINING TO MAPS IN BOOK D

Map	References	Symbols	Place Names	Total
#1	1	6	13	20
#2	3	3	25	31
#3	0	3	11	14
#4	0	8	24	32
#5	0	3	12	15
#6	0	7	16	23
#7	0	5	15	20
#8	0	10	23	33
#9	1	7	21	29
#10	1	2	15	18
#11	1	6	9	16
#12	2	6	20	28
#13	0	4	29	33
#14	0	4	14	18
#15	3	7	22	32
#16	0	3	4	7
#17	6	8	34	48
#18	0	6	5	11
#19	0	6	10	16
#20	0	9	33	42
#21	0	7	25	32

TABLE OF CONTENTS

Page	Chapter	Section	Sub-section	Page
1	I	1	1	1
2	I	2	1	2
3	I	3	1	3
4	I	4	1	4
5	I	5	1	5
6	I	6	1	6
7	I	7	1	7
8	I	8	1	8
9	I	9	1	9
10	I	10	1	10
11	I	11	1	11
12	I	12	1	12
13	I	13	1	13
14	I	14	1	14
15	I	15	1	15
16	I	16	1	16
17	I	17	1	17
18	I	18	1	18
19	I	19	1	19
20	I	20	1	20
21	I	21	1	21
22	I	22	1	22
23	I	23	1	23
24	I	24	1	24
25	I	25	1	25
26	I	26	1	26
27	I	27	1	27
28	I	28	1	28
29	I	29	1	29
30	I	30	1	30
31	I	31	1	31
32	I	32	1	32
33	I	33	1	33
34	I	34	1	34
35	I	35	1	35
36	I	36	1	36
37	I	37	1	37
38	I	38	1	38
39	I	39	1	39
40	I	40	1	40
41	I	41	1	41
42	I	42	1	42
43	I	43	1	43
44	I	44	1	44
45	I	45	1	45
46	I	46	1	46
47	I	47	1	47
48	I	48	1	48
49	I	49	1	49
50	I	50	1	50
51	I	51	1	51
52	I	52	1	52
53	I	53	1	53
54	I	54	1	54
55	I	55	1	55
56	I	56	1	56
57	I	57	1	57
58	I	58	1	58
59	I	59	1	59
60	I	60	1	60
61	I	61	1	61
62	I	62	1	62
63	I	63	1	63
64	I	64	1	64
65	I	65	1	65
66	I	66	1	66
67	I	67	1	67
68	I	68	1	68
69	I	69	1	69
70	I	70	1	70
71	I	71	1	71
72	I	72	1	72
73	I	73	1	73
74	I	74	1	74
75	I	75	1	75
76	I	76	1	76
77	I	77	1	77
78	I	78	1	78
79	I	79	1	79
80	I	80	1	80
81	I	81	1	81
82	I	82	1	82
83	I	83	1	83
84	I	84	1	84
85	I	85	1	85
86	I	86	1	86
87	I	87	1	87
88	I	88	1	88
89	I	89	1	89
90	I	90	1	90
91	I	91	1	91
92	I	92	1	92
93	I	93	1	93
94	I	94	1	94
95	I	95	1	95
96	I	96	1	96
97	I	97	1	97
98	I	98	1	98
99	I	99	1	99
100	I	100	1	100

TABLE IV-D (continued)
 NUMBER OF REFERENCES, SYMBOLS, AND PLACE NAMES
 PERTAINING TO MAPS IN BOOK D

Map	References	Symbols	Place Names	Total
#22	1	6	19	26
#23	1	4	6	11
#24	0	4	14	18
Total	20	134	419	573
Mean	.83	5.58	17.46	23.87

The preceding table shows that in book D there was a total of twenty references pertaining to maps found in this textbook. Of this number seventeen were made in the textual material proper, and three were made through the medium of map activities. The average number of references per map was found to be .83.

A total of 134 symbols was found on all maps in textbook D. The average number of symbols per map was found to be 5.58. The range was from ten symbols found on map #8 to two symbols found on map #10.

A total of 419 place names was found on all maps. The average number of place names per map was found to be 17.46. The range was from thirty-four place names found on map #17 to four place names found on map #16.

The combined total of references, symbols, and place

TABLE I				
Year	1900	1901	1902	1903
Jan	100	100	100	100
Feb	100	100	100	100
Mar	100	100	100	100
Apr	100	100	100	100
May	100	100	100	100
Jun	100	100	100	100
Jul	100	100	100	100
Aug	100	100	100	100
Sep	100	100	100	100
Oct	100	100	100	100
Nov	100	100	100	100
Dec	100	100	100	100

The following table shows the results of the experiments conducted during the year 1900. The first column gives the date of the experiment, the second column the number of trials, the third column the number of successes, the fourth column the number of failures, and the fifth column the percentage of successes.

The results of the experiments show that the probability of success is approximately 0.5, which is in agreement with the theoretical probability of 0.5 for a fair coin.

The following table shows the results of the experiments conducted during the year 1901. The first column gives the date of the experiment, the second column the number of trials, the third column the number of successes, the fourth column the number of failures, and the fifth column the percentage of successes.

The results of the experiments show that the probability of success is approximately 0.5, which is in agreement with the theoretical probability of 0.5 for a fair coin.

The following table shows the results of the experiments conducted during the year 1902. The first column gives the date of the experiment, the second column the number of trials, the third column the number of successes, the fourth column the number of failures, and the fifth column the percentage of successes.

The results of the experiments show that the probability of success is approximately 0.5, which is in agreement with the theoretical probability of 0.5 for a fair coin.

The following table shows the results of the experiments conducted during the year 1903. The first column gives the date of the experiment, the second column the number of trials, the third column the number of successes, the fourth column the number of failures, and the fifth column the percentage of successes.

The results of the experiments show that the probability of success is approximately 0.5, which is in agreement with the theoretical probability of 0.5 for a fair coin.

names for all maps was found to be 573. The average total per map was found to be 23.87. The range was from forty-eight on map #17 to seven on map #16.

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TABLE IV-E
NUMBER OF REFERENCES, SYMBOLS, AND PLACE NAMES
PERTAINING TO MAPS IN BOOK E

Map	References	Symbols	Place Names	Total
#1	0	8	5	13
#2	2	2	6	10
#3	0	2	3	5
#4	3	8	7	18
#5	0	1	4	5
#6	0	2	2	4
#7	4	4	5	13
#8	0	4	2	6
#9	0	2	0	2
#10	0	5	8	13
#11	0	--	3	3
#12	0	--	2	2
#13	0	5	6	11
#14	0	5	23	28
#15	0	5	3	8
#16	0	3	0	3
#17	0	--	7	7
#18	0	6	12	18
#19	2	7	0	9
#20	1	8	24	33
#21	1	--	6	7

TABLE IV-E (continued)

NUMBER OF REFERENCES, SYMBOLS, AND PLACE NAMES
PERTAINING TO MAPS IN BOOK E

Map	References	Symbols	Place Names	Total
#22	1	7	27	35
#23	0	--	0	0
#24	0	3	3	6
#25	1	3	13	17
#26	0	1	13	14
#27	0	7	35	42
#28	0	4	19	23
#29	0	5	101	106
#30	0	9	11	20
#31	0	2	14	16
#32	0	2	5	7
#33	0	4	0	4
#34	0	5	0	5
#35	0	5	9	14
#36	0	2	29	31
#37	0	5	8	13
#38	0	4	4	8
#39	0	2	25	27
Total	15	147	444	606
Mean	.38	3.77	11.38	15.53

Table showing the
 results of the
 examination of the
 specimens of the
 various species of
 the genus *Phrynosoma*

No.	Length		Weight		Sex
	Head	Body	Head	Body	
1	100	150	100	150	Male
2	110	160	110	160	Male
3	120	170	120	170	Male
4	130	180	130	180	Male
5	140	190	140	190	Male
6	150	200	150	200	Male
7	160	210	160	210	Male
8	170	220	170	220	Male
9	180	230	180	230	Male
10	190	240	190	240	Male
11	200	250	200	250	Male
12	210	260	210	260	Male
13	220	270	220	270	Male
14	230	280	230	280	Male
15	240	290	240	290	Male
16	250	300	250	300	Male
17	260	310	260	310	Male
18	270	320	270	320	Male
19	280	330	280	330	Male
20	290	340	290	340	Male
21	300	350	300	350	Male
22	310	360	310	360	Male
23	320	370	320	370	Male
24	330	380	330	380	Male
25	340	390	340	390	Male
26	350	400	350	400	Male
27	360	410	360	410	Male
28	370	420	370	420	Male
29	380	430	380	430	Male
30	390	440	390	440	Male
31	400	450	400	450	Male
32	410	460	410	460	Male
33	420	470	420	470	Male
34	430	480	430	480	Male
35	440	490	440	490	Male
36	450	500	450	500	Male
37	460	510	460	510	Male
38	470	520	470	520	Male
39	480	530	480	530	Male
40	490	540	490	540	Male
41	500	550	500	550	Male
42	510	560	510	560	Male
43	520	570	520	570	Male
44	530	580	530	580	Male
45	540	590	540	590	Male
46	550	600	550	600	Male
47	560	610	560	610	Male
48	570	620	570	620	Male
49	580	630	580	630	Male
50	590	640	590	640	Male
51	600	650	600	650	Male
52	610	660	610	660	Male
53	620	670	620	670	Male
54	630	680	630	680	Male
55	640	690	640	690	Male
56	650	700	650	700	Male
57	660	710	660	710	Male
58	670	720	670	720	Male
59	680	730	680	730	Male
60	690	740	690	740	Male
61	700	750	700	750	Male
62	710	760	710	760	Male
63	720	770	720	770	Male
64	730	780	730	780	Male
65	740	790	740	790	Male
66	750	800	750	800	Male
67	760	810	760	810	Male
68	770	820	770	820	Male
69	780	830	780	830	Male
70	790	840	790	840	Male
71	800	850	800	850	Male
72	810	860	810	860	Male
73	820	870	820	870	Male
74	830	880	830	880	Male
75	840	890	840	890	Male
76	850	900	850	900	Male
77	860	910	860	910	Male
78	870	920	870	920	Male
79	880	930	880	930	Male
80	890	940	890	940	Male
81	900	950	900	950	Male
82	910	960	910	960	Male
83	920	970	920	970	Male
84	930	980	930	980	Male
85	940	990	940	990	Male
86	950	1000	950	1000	Male
87	960	1010	960	1010	Male
88	970	1020	970	1020	Male
89	980	1030	980	1030	Male
90	990	1040	990	1040	Male
91	1000	1050	1000	1050	Male
92	1010	1060	1010	1060	Male
93	1020	1070	1020	1070	Male
94	1030	1080	1030	1080	Male
95	1040	1090	1040	1090	Male
96	1050	1100	1050	1100	Male
97	1060	1110	1060	1110	Male
98	1070	1120	1070	1120	Male
99	1080	1130	1080	1130	Male
100	1090	1140	1090	1140	Male
101	1100	1150	1100	1150	Male
102	1110	1160	1110	1160	Male
103	1120	1170	1120	1170	Male
104	1130	1180	1130	1180	Male
105	1140	1190	1140	1190	Male
106	1150	1200	1150	1200	Male
107	1160	1210	1160	1210	Male
108	1170	1220	1170	1220	Male
109	1180	1230	1180	1230	Male
110	1190	1240	1190	1240	Male
111	1200	1250	1200	1250	Male
112	1210	1260	1210	1260	Male
113	1220	1270	1220	1270	Male
114	1230	1280	1230	1280	Male
115	1240	1290	1240	1290	Male
116	1250	1300	1250	1300	Male
117	1260	1310	1260	1310	Male
118	1270	1320	1270	1320	Male
119	1280	1330	1280	1330	Male
120	1290	1340	1290	1340	Male
121	1300	1350	1300	1350	Male
122	1310	1360	1310	1360	Male
123	1320	1370	1320	1370	Male
124	1330	1380	1330	1380	Male
125	1340	1390	1340	1390	Male
126	1350	1400	1350	1400	Male
127	1360	1410	1360	1410	Male
128	1370	1420	1370	1420	Male
129	1380	1430	1380	1430	Male
130	1390	1440	1390	1440	Male
131	1400	1450	1400	1450	Male
132	1410	1460	1410	1460	Male
133	1420	1470	1420	1470	Male
134	1430	1480	1430	1480	Male
135	1440	1490	1440	1490	Male
136	1450	1500	1450	1500	Male
137	1460	1510	1460	1510	Male
138	1470	1520	1470	1520	Male
139	1480	1530	1480	1530	Male
140	1490	1540	1490	1540	Male
141	1500	1550	1500	1550	Male
142	1510	1560	1510	1560	Male
143	1520	1570	1520	1570	Male
144	1530	1580	1530	1580	Male
145	1540	1590	1540	1590	Male
146	1550	1600	1550	1600	Male
147	1560	1610	1560	1610	Male
148	1570	1620	1570	1620	Male
149	1580	1630	1580	1630	Male
150	1590	1640	1590	1640	Male
151	1600	1650	1600	1650	Male
152	1610	1660	1610	1660	Male
153	1620	1670	1620	1670	Male
154	1630	1680	1630	1680	Male
155	1640	1690	1640	1690	Male
156	1650	1700	1650	1700	Male
157	1660	1710	1660	1710	Male
158	1670	1720	1670	1720	Male
159	1680	1730	1680	1730	Male
160	1690	1740	1690	1740	Male
161	1700	1750	1700	1750	Male
162	1710	1760	1710	1760	Male
163	1720	1770	1720	1770	Male
164	1730	1780	1730	1780	Male
165	1740	1790	1740	1790	Male
166	1750	1800	1750	1800	Male
167	1760	1810	1760	1810	Male
168	1770	1820	1770	1820	Male
169	1780	1830	1780	1830	Male
170	1790	1840	1790	1840	Male
171	1800	1850	1800	1850	Male
172	1810	1860	1810	1860	Male
173	1820	1870	1820	1870	Male
174	1830	1880	1830	1880	Male
175	1840	1890	1840	1890	Male
176	1850	1900	1850	1900	Male
177	1860	1910	1860	1910	Male
178	1870	1920	1870	1920	Male
179	1880	1930	1880	1930	Male
180	1890	1940	1890	1940	Male
181	1900	1950	1900	1950	Male
182	1910	1960	1910	1960	Male
183	1920	1970	1920	1970	Male
184	1930	1980	1930	1980	Male
185	1940	1990	1940	1990	Male
186	1950	2000	1950	2000	Male
187	1960	2010	1960	2010	Male
188	1970	2020	1970	2020	Male
189	1980	2030	1980	2030	Male
190	1990	2040	1990	2040	Male
191	2000	2050	2000	2050	Male
192	2010	2060	2010	2060	Male
193	2020	2070	2020	2070	Male
194	2030	2080	2030	2080	Male
195	2040	2090	2040	2090	Male
196	2050	2100	2050	2100	Male
197	2060	2110	2060	2110	Male
198	2070	2120	2070	2120	Male
199	2080	2130	2080	2130	Male
200	2090	2140	2090	2140	Male
201	2100	2150	2100	2150	Male
202	2110	2160	2110	2160	Male
203	2120	2170	2120	2170	Male
204	2130	2180	2130	2180	Male
205	2140	2190	2140	2190	Male
206	2150	2200	2150	2200	Male
207	2160	2210	2160	2210	Male
208	2170	2220	2170	2220	Male
209	2180	2230	2180	2230	Male
210	2190	2240	2190	2240	Male
211	2200	2250	2200	2250	Male
212	2210	2260	2210	2260	Male
213	2220	2270	2220	2270	Male
214	2230	2280	2230	2280	Male
215	2240	2290	2240	2290	Male
216	2250	2300	2250	2300	Male
217	2260	2310	2260	2310	Male
218	2270	2320	2270	2320	Male
219	2280	2330	2280	2330	Male
220	2290	2340	2290	2340	Male
221	2300	2350	2300	2350	Male
222	2310	2360	2310	2360	Male
223	2320	2370	2320	2370	Male
224	2330	2380	2330	2380	Male
225	2340	2390	2340	2390	Male
226	2350	2400	2350	2400	Male
227	2360	2410	2360	2410	Male
228	2370	2420	2370	2420	Male
229					

The preceding table shows that in book E there was a total of fifteen references pertaining to maps found in this textbook. All references were made through the medium of map activities. There were no references to maps in the textual material proper. The average number of references per map was found to be .38.

A total of 147 symbols was found on all maps in textbook E. The average number of symbols per map was found to be 3.77. The range was from nine symbols found on map #30 to one symbol found on maps #5 and 26. On maps #11, 12, 17, 21, and 23 the number of symbols was not determined as these were considered pictorial maps.

A total of 444 place names was found on all maps in this text. The average number of place names per map was found to be 11.38. The range was from 101 place names on map #29 to no place names on maps #9, 16, 19, 23, 33, and 34.

The combined total of references, symbols, and place names for all maps was found to be 606. The average total per map was found to be 15.33. The range was from 106 on map #29 to none on map #23.

The first of these is the fact that the
... ..
... ..
... ..
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... ..

The second of these is the fact that the
... ..
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... ..
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... ..

The third of these is the fact that the
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... ..
... ..
... ..
... ..

TABLE IV-F
NUMBER OF REFERENCES, SYMBOLS, AND PLACE NAMES
PERTAINING TO MAPS IN BOOK F

Map	References	Symbols	Place Names	Total
#1	5	13	14	32
#2	4	13	18	35
#3	6	11	19	36
#4	5	8	37	50
#5	9	7	65	81
#6	7	11	113	131
#7	1	5	13	19
#8	1	6	7	14
#9	7	12	96	115
#10	1	7	17	25
#11	1	3	8	12
#12	1	2	5	8
#13	1	1	4	6
#14	1	1	6	8
#15	1	8	53	62
#16	1	9	109	119
#17	1	10	77	88
Total	53	127	661	841
Mean	3.12	7.47	38.88	49.47

The preceding table shows that in book F there was a total of fifty-three references pertaining to maps in this

textbook. All references were made through the medium of map activities, no references were made in textual material proper. The average number of references per map was found to be 3.12.

A total of 127 symbols was found on all maps. The average number of symbols per map was found to be 7.47. The range was from thirteen symbols on maps #1 and 2 to one symbol found on maps #13 and 14.

A total of 661 place names was found on all maps. The average number of place names per map was found to be 38.83. The range was from 113 place names on map #6 to four place names on map #13.

The combined total of references, symbols, and place names for all maps was found to be 841. The average total per map was found to be 49.47. The range was from 131 on map #6 to six on map #13.

TABLE IV-G

NUMBER OF REFERENCES, SYMBOLS, AND PLACE NAMES
PERTAINING TO MAPS IN BOOK G

Map	References	Symbols	Place Names	Total
#1	0	6	21	27
#2	0	--	0	0
#3	1	8	16	25
#4	0	3	10	13
#5	1	6	8	15
#6	7	7	20	34
#7	1	6	16	23
#8	1	8	20	29
#9	3	10	22	35
#10	0	13	48	61
#11	3	8	1	12
#12	1	6	54	61
#13	0	6	15	21
#14	0	7	39	46
#15	0	9	32	41
#16	0	7	0	7
#17	0	7	2	9
#18	4	11	54	69
#19	1	10	25	36
#20	0	6	41	47
#21	0	8	34	42

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CONTENTS				
ORIGINAL ARTICLES	DEPARTMENTS	BOOK REVIEWS	SYMPOSIUM	EDITORIAL
1. The Problem of the Doctor's Work	2. The Doctor's Work	3. The Doctor's Work	4. The Doctor's Work	5. The Doctor's Work
6. The Problem of the Doctor's Work	7. The Doctor's Work	8. The Doctor's Work	9. The Doctor's Work	10. The Doctor's Work
11. The Problem of the Doctor's Work	12. The Doctor's Work	13. The Doctor's Work	14. The Doctor's Work	15. The Doctor's Work
16. The Problem of the Doctor's Work	17. The Doctor's Work	18. The Doctor's Work	19. The Doctor's Work	20. The Doctor's Work
21. The Problem of the Doctor's Work	22. The Doctor's Work	23. The Doctor's Work	24. The Doctor's Work	25. The Doctor's Work
26. The Problem of the Doctor's Work	27. The Doctor's Work	28. The Doctor's Work	29. The Doctor's Work	30. The Doctor's Work
31. The Problem of the Doctor's Work	32. The Doctor's Work	33. The Doctor's Work	34. The Doctor's Work	35. The Doctor's Work
36. The Problem of the Doctor's Work	37. The Doctor's Work	38. The Doctor's Work	39. The Doctor's Work	40. The Doctor's Work
41. The Problem of the Doctor's Work	42. The Doctor's Work	43. The Doctor's Work	44. The Doctor's Work	45. The Doctor's Work
46. The Problem of the Doctor's Work	47. The Doctor's Work	48. The Doctor's Work	49. The Doctor's Work	50. The Doctor's Work
51. The Problem of the Doctor's Work	52. The Doctor's Work	53. The Doctor's Work	54. The Doctor's Work	55. The Doctor's Work
56. The Problem of the Doctor's Work	57. The Doctor's Work	58. The Doctor's Work	59. The Doctor's Work	60. The Doctor's Work
61. The Problem of the Doctor's Work	62. The Doctor's Work	63. The Doctor's Work	64. The Doctor's Work	65. The Doctor's Work
66. The Problem of the Doctor's Work	67. The Doctor's Work	68. The Doctor's Work	69. The Doctor's Work	70. The Doctor's Work
71. The Problem of the Doctor's Work	72. The Doctor's Work	73. The Doctor's Work	74. The Doctor's Work	75. The Doctor's Work
76. The Problem of the Doctor's Work	77. The Doctor's Work	78. The Doctor's Work	79. The Doctor's Work	80. The Doctor's Work
81. The Problem of the Doctor's Work	82. The Doctor's Work	83. The Doctor's Work	84. The Doctor's Work	85. The Doctor's Work
86. The Problem of the Doctor's Work	87. The Doctor's Work	88. The Doctor's Work	89. The Doctor's Work	90. The Doctor's Work
91. The Problem of the Doctor's Work	92. The Doctor's Work	93. The Doctor's Work	94. The Doctor's Work	95. The Doctor's Work
96. The Problem of the Doctor's Work	97. The Doctor's Work	98. The Doctor's Work	99. The Doctor's Work	100. The Doctor's Work

TABLE IV-G (continued)
 NUMBER OF REFERENCES, SYMBOLS, AND PLACE NAMES
 PERTAINING TO MAPS IN BOOK G

Map	References	Symbols	Place Names	Total
#22	3	17	42	62
#23	1	5	66	72
#24	0	12	75	87
#25	0	5	0	5
#26	0	8	47	55
#27	1	9	14	24
#28	4	6	34	44
Total	32	214	756	1,002
Mean	1.14	7.66	27.00	35.80

The preceding table shows that in book G there was a total of thirty-two references pertaining to maps found in this textbook. Of this number eight were made in the textual material proper, and twenty-four were made through the medium of map activities. The average number of references per map was found to be 1.14.

A total of 214 symbols was found on all maps in textbook G. The average number of symbols per map was found to be 7.66. The range was from seventeen symbols found on map #22 to three symbols found on map #4. On map #2 the number of symbols was not determined as this was considered a picture map.

A total of 756 place names was found on all maps. The average number of place names per map was found to be twenty-seven. The range was from seventy-five place names found on map #24 to no place names found on maps #2, 16, and 25.

The combined total of references, symbols and place names for all maps was found to be 1,002. The average total per map was found to be 35.80. The range was from eighty-seven on map #24 to none on map #2.

Table V shows the numerical distribution of the nature of captions, scale, and clarity of maps found in the seven fifth grade American history books examined in this study. Such a table will enable the reader to compare the relative merits of the various books according to these categories.

TABLE V

NUMERICAL DISTRIBUTION OF THE NATURE OF CAPTIONS,
SCALE, AND CLARITY OF MAPS FOUND IN SEVEN FIFTH
GRADE AMERICAN HISTORY TEXTBOOKS

	A	B	C	Book D	E	F	G	Total
<u>Captions</u>								
Caption only	17	9	12	16	24	8	1	87
No caption	0	0	3	1	5	9	0	18
Caption with explanation	1	0	4	2	10	0	27	44
Caption with question	0	0	0	4	0	0	0	4
Explanation with question only	0	0	0	1	0	0	0	1
<u>Scale</u>								
Scale	0	0	13	7	0	2	13	35
No scale	18	9	6	17	39	15	15	119
<u>Clarity</u>								
Good	18	4	18	24	37	13	28	142
Fair	0	4	1	0	2	0	0	7
Poor	0	1	0	0	0	4	0	5
Total								154

The preceding table shows that there was a total of 154 maps found in the seven history textbooks examined. The greatest number of maps (eighty-seven) were found to possess a

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No.	Author	Title	Date	Price	Binding	Location	Remarks
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caption only. The range in this category was found to be from twenty-four maps in book E to one map in book G.

Approximately 9 percent of the maps (eighteen) were found to possess no captions. Three books A, B, and G did not register in this category thus showing that all maps in these books possessed some sort of caption. Four books C, D, E, and F had maps that possessed no caption, and ranged from nine maps found in book F to one map found in book D.

There was a total of forty-four maps that possessed a caption accompanied by an explanatory statement. Two books B and F did not register in this category. Five books A, C, D, E, and G had maps that possessed a caption accompanied by an explanatory statement, and ranged from twenty-seven maps found in book G to one map found in book A.

There was a total of four maps that possessed a caption accompanied by a question. Book D was the only one to register in this category.

There was only one map that possessed no caption but did have an explanatory statement accompanied by a question and this was found in book D.

There was a total of 119 maps that possessed no scale of miles. All maps in books A, B, and E registered in this category while the range was from thirty-nine maps in book E to six maps in book C. In contrast there was a total of thirty-five maps that had a scale of miles. Four books C, D, F, and G registered in this category with books C and G having

the greatest amount, both books had thirteen maps possessing a scale.

There was a total of 142 maps rated as good as regards clarity of mechanical make-up. They ranged from thirty-seven maps in book E to four maps in book B. Three books A, D, and G had all maps rated as good.

There was a total of seven maps rated as fair as regards mechanical make-up. Book B had four maps rated as fair, book E had two maps and book C had one map.

There was a total of five maps rated as poor as regards mechanical make-up. Book F had four maps and book B had one map rated in this category.

Table VI shows the numerical distribution of the size, color, key, and period of the maps found in seven fifth grade American history textbooks examined in this study. Such a table will enable the reader to compare the relative merits of the various books according to these categories.

TABLE VI

NUMERICAL DISTRIBUTION OF THE SIZE, COLOR, KEY,
AND PERIOD OF THE MAPS FOUND IN SEVEN FIFTH
GRADE AMERICAN HISTORY TEXTBOOKS

	A	B	C	Book D	E	F	G	Total
<u>Size</u>								
Full page	15	4	5	7	2	10	3	46
More than half to full page	1	2	2	5	14	1	12	37
Half page	1	0	0	0	0	0	5	6
Less than half page	1	3	12	12	23	6	8	65
<u>Color</u>								
Colored	18	9	3	0	16	0	0	46
Black-and-white	0	0	16	24	23	17	28	108
<u>Key</u>								
No	15	3	6	19	33	13	22	111
Yes	3	6	13	5	6	4	6	43
<u>Period</u>								
-1492	3	2	1	2	2	0	2	12
1492-1720	5	4	9	12	12	3	12	57
1721-1949	10	3	9	10	25	14	14	85

The preceding table shows that there was a total of
forty-six full page maps found in the seven history textbooks

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VOLUME 100 PART 1 2000

Pleistocene and Holocene human evolution in Europe									
The Middle Palaeolithic									
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200
201	202	203	204	205	206	207	208	209	210
211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230
231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250
251	252	253	254	255	256	257	258	259	260
261	262	263	264	265	266	267	268	269	270
271	272	273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288	289	290
291	292	293	294	295	296	297	298	299	300
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311	312	313	314	315	316	317	318	319	320
321	322	323	324	325	326	327	328	329	330
331	332	333	334	335	336	337	338	339	340
341	342	343	344	345	346	347	348	349	350
351	352	353	354	355	356	357	358	359	360
361	362	363	364	365	366	367	368	369	370
371	372	373	374	375	376	377	378	379	380
381	382	383	384	385	386	387	388	389	390
391	392	393	394	395	396	397	398	399	400
401	402	403	404	405	406	407	408	409	410
411	412	413	414	415	416	417	418	419	420
421	422	423	424	425	426	427	428	429	430
431	432	433	434	435	436	437	438	439	440
441	442	443	444	445	446	447	448	449	450
451	452	453	454	455	456	457	458	459	460
461	462	463	464	465	466	467	468	469	470
471	472	473	474	475	476	477	478	479	480
481	482	483	484	485	486	487	488	489	490
491	492	493	494	495	496	497	498	499	500
501	502	503	504	505	506	507	508	509	510
511	512	513	514	515	516	517	518	519	520
521	522	523	524	525	526	527	528	529	530
531	532	533	534	535	536	537	538	539	540
541	542	543	544	545	546	547	548	549	550
551	552	553	554	555	556	557	558	559	560
561	562	563	564	565	566	567	568	569	570
571	572	573	574	575	576	577	578	579	580
581	582	583	584	585	586	587	588	589	590
591	592	593	594	595	596	597	598	599	600
601	602	603	604	605	606	607	608	609	610
611	612	613	614	615	616	617	618	619	620
621	622	623	624	625	626	627	628	629	630
631	632	633	634	635	636	637	638	639	640
641	642	643	644	645	646	647	648	649	650
651	652	653	654	655	656	657	658	659	660
661	662	663	664	665	666	667	668	669	670
671	672	673	674	675	676	677	678	679	680
681	682	683	684	685	686	687	688	689	690
691	692	693	694	695	696	697	698	699	700
701	702	703	704	705	706	707	708	709	710
711	712	713	714	715	716	717	718	719	720
721	722	723	724	725	726	727	728	729	730
731	732	733	734	735	736	737	738	739	740
741	742	743	744	745	746	747	748	749	750
751	752	753	754	755	756	757	758	759	760
761	762	763	764	765	766	767	768	769	770
771	772	773	774	775	776	777	778	779	780
781	782	783	784	785	786	787	788	789	790
791	792	793	794	795	796	797	798	799	800
801	802	803	804	805	806	807	808	809	810
811	812	813	814	815	816	817	818	819	820
821	822	823	824	825	826	827	828	829	830
831	832	833	834	835	836	837	838	839	840
841	842	843	844	845	846	847	848	849	850
851	852	853	854	855	856	857	858	859	860
861	862	863	864	865	866	867	868	869	870
871	872	873	874	875	876	877	878	879	880
881	882	883	884	885	886	887	888	889	890
891	892	893	894	895	896	897	898	899	900
901	902	903	904	905	906	907	908	909	910
911	912	913	914	915	916	917	918	919	920
921	922	923	924	925	926	927	928	929	930
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991	992	993	994	995	996	997	998	999	1000

Abstracts of the papers presented at the meeting of the British Association for the Advancement of Science, 1999, held at the University of Cambridge, 1-5 September 1999.

Abstracts of the papers presented at the meeting of the British Association for the Advancement of Science, 1999, held at the University of Cambridge, 1-5 September 1999.

examined. All books registered in this category, with the range being from fifteen maps in book A to two maps in book E.

There was a total of thirty-seven more than half to full page maps found in the seven books. All books registered in this category, with the range being from fourteen maps in book E to one map in books A and F.

There was a total of six half page maps found in the seven books. Books A and G only, registered in this category, with book A having one map of this type and book G having five maps.

There was a total of sixty-five less than half page maps. All books registered in this category, with the range being from twenty-three maps in book E to one map in book A.

The greater number of maps, in the seven books examined, were found to be black-and-white. The total amounted to 108 maps. Books D, F, and G registered all maps in this category.

There was a total of forty-six maps that were colored. Books A and B registered all maps in this category while books D, F, and G did not have a map that was colored.

There was a total of 111 maps found in the seven books that possessed no key. All books registered in this category, with the range being from thirty-three maps in book E to three maps in book B.

A total of forty-three maps had a key. All books registered in this category with the range being from thirteen

The first part of the paper is devoted to a general discussion of the problem of the origin of life. It is shown that the problem is one of the most important and interesting in the history of science. The second part of the paper is devoted to a detailed discussion of the problem of the origin of life. It is shown that the problem is one of the most important and interesting in the history of science. The third part of the paper is devoted to a detailed discussion of the problem of the origin of life. It is shown that the problem is one of the most important and interesting in the history of science. The fourth part of the paper is devoted to a detailed discussion of the problem of the origin of life. It is shown that the problem is one of the most important and interesting in the history of science. The fifth part of the paper is devoted to a detailed discussion of the problem of the origin of life. It is shown that the problem is one of the most important and interesting in the history of science. The sixth part of the paper is devoted to a detailed discussion of the problem of the origin of life. It is shown that the problem is one of the most important and interesting in the history of science. The seventh part of the paper is devoted to a detailed discussion of the problem of the origin of life. It is shown that the problem is one of the most important and interesting in the history of science. The eighth part of the paper is devoted to a detailed discussion of the problem of the origin of life. It is shown that the problem is one of the most important and interesting in the history of science. The ninth part of the paper is devoted to a detailed discussion of the problem of the origin of life. It is shown that the problem is one of the most important and interesting in the history of science. The tenth part of the paper is devoted to a detailed discussion of the problem of the origin of life. It is shown that the problem is one of the most important and interesting in the history of science.

maps in book C to three maps in book A.

There was a total of twelve maps found in the seven books examined that depicted events or areas prior to the discovery of America. All books registered in this category with the exception of book F. Book A had the greatest number of maps in this period -- three.

There was a total of fifty-seven maps depicting events or areas in the period recorded as the first half of American history. All books registered in this category with the range being from twelve maps in books D, E, and G to three maps in book F.

A total of eighty-five maps was found, in the seven books examined, depicting events or areas in the period recorded as the second half of American history. All books registered in this category, with the range being from twenty-five maps in book E to three maps in book B.

Table VII shows the numerical distribution of the character and type of maps found in seven fifth grade American history textbooks examined in this study. Such a table will enable the reader to compare the relative merits of the various books according to these categories.

TABLE VII
 NUMERICAL DISTRIBUTION OF THE CHARACTER AND TYPE
 OF MAPS FOUND IN SEVEN FIFTH GRADE
 AMERICAN HISTORY TEXTBOOKS

	Book							Total
	A	B	C	D	E	F	G	
<u>Character</u>								
Political	3	2	2	2	12	1	2	24
Political possession	2	0	0	2	1	0	2	7
Political settlement	0	0	1	0	0	0	0	1
Political war	1	1	1	0	4	3	1	11
Political defense	0	1	0	0	0	0	0	1
Exploration	8	3	4	8	6	3	7	39
Expansion	3	1	1	0	3	1	6	15
Trade	0	1	0	1	0	1	1	4
Travel	0	0	0	0	2	1	2	5
Communication	0	0	0	0	1	1	0	2
War	1	0	1	5	4	2	0	13
Settlement	0	0	9	4	2	0	4	19
Regional	0	0	0	2	4	4	0	10
Projection	0	0	0	0	0	0	2	2
Picture	0	0	0	0	0	0	1	1
<u>Type</u>								
Functional	18	9	19	24	38	17	28	153
Non-functional	0	0	0	0	1	0	0	1

The preceding table shows that there was a total of twenty-four maps found, in the seven books examined, that were purely political in character. All books registered in this category, with the range being from twelve maps in book E to one map in book F. There were four books that possessed two maps each in this category, they were books B, C, D, and G.

There were seven maps that depicted political possessions in the seven books examined. Three books did not register in this category -- B, C, and F. Three books, A, D, and G, had two maps apiece in this category whereas book E had one map.

Book C alone registered in the category of books possessing maps showing political settlements and that had one map only.

A total of eleven maps was found in the category of maps depicting political war alignment. All but book D registered in this category. Of those books that possessed such maps the range was from four maps in book E to one map in books A, B, C, and G.

Book B alone registered in the category of books possessing maps depicting a political defense set up and that had one map only.

A total of thirty-nine maps was found in all books depicting exploration. All books registered in this category, with the range being from eight maps in books A and D to three maps in books B and F.

A total of fifteen maps, depicting expansion, was found in the seven books examined. All books but book D registered in this category, with the range being from six maps in book G to one map in books B, C, and F.

Only four books registered in the category of books possessing maps depicting routes of trade. These were books B, D, F, and G which had one map each.

Three books registered in the category of those possessing maps depicting routes of travel. Books E and G had two maps each and book F had one map only.

Only two books registered in the category of those possessing maps depicting routes of communication. These were books E and F which had one map each.

Only books B and G failed to register in the category of books possessing maps depicting war areas or routes of war, with the range being from five maps in book D to one map in books A and C.

Three books, A, B, and F, failed to register in the category of those possessing maps depicting areas of settlement, with the range being from nine maps in book C to two maps in book E. A total of nineteen maps was found in this category.

A total of ten maps was found, in the seven books examined, depicting regional possessions or areas. Four books, A, B, C, and G had no maps of this character while book D had two maps and E and F each had four maps.

Only book G registered in the category of those books possessing maps depicting a type of projection. It possessed the only two maps found in this category.

Only book G registered in the category of those books possessing picture maps and it had one map only.

All but one map out of a total of 154 maps were considered functional illustrations, and that was found in book E.

Table VIII shows the numerical distribution of references, symbols, and place names pertaining to maps found in seven fifth grade American history textbooks examined in this study. Such a table will enable the reader to compare the relative merits of the various books according to these categories.

TABLE VIII

NUMERICAL DISTRIBUTION OF REFERENCES, SYMBOLS, AND
PLACE NAMES PERTAINING TO MAPS FOUND IN SEVEN FIFTH
GRADE AMERICAN HISTORY TEXTBOOKS

	A	B	C	Book D	E	F	G	Total
References	21	17	142	20	15	53	32	300
Symbols	139	71	277	134	147	127	214	1,109
Place Names	574	204	1,428	419	444	661	756	4,486
Total	734	292	1,847	573	606	841	1,002	5,895

An overall total of references, symbols, and place names for all maps, in the seven books examined, was found to

be 5,895.

A total of 300 references was made to 154 maps. The range was found to be from 142 references in book C to fifteen references in book E.

A total of 1,109 different symbols was found on 154 maps. The range was found to be from 277 symbols in book C to seventy-one symbols in book B.

A total of 4,486 place names was found on 154 maps. They ranged from 1,423 place names in book C to 204 place names in book B.

Table IX shows the location of the map lists found in the various textbooks examined, if such existed. If none existed it is so tabulated. Maps are a very important part of any textbook and as such should be listed. Besides providing a means of quick reference a separate map listing provides added opportunity for the student to use reference material.

TABLE IX
LOCATION OF MAP LIST FOUND IN SEVEN FIFTH
GRADE AMERICAN HISTORY TEXTBOOKS

Book	Index	Table of Contents	Appendix	None
A		X		
B	X			
C	X			
D				X
E			X	
F				X
G				X

The preceding table shows that four books had a map list. Book A possessing a map list found as part of the table of contents. Books B and C listed maps in the index. Book E had a map list which was considered as part of the appendix. Books D, F, and G did not list the maps.

Table X shows the numerical distribution of the type of projections found in seven fifth grade American history textbooks. Maps that are real projections or reproductions of the same acquaint the student with many map features that he will study about later on. The author who includes such maps in his textbook is giving the child valuable information concerning maps that he will meet in his study of geography.

TABLE X

NUMERICAL DISTRIBUTION OF THE TYPE OF PROJECTIONS FOUND IN
SEVEN FIFTH GRADE AMERICAN HISTORY TEXTBOOKS

Projection	Book							Total
	A	B	C	D	E	F	G	
Conic	0	0	13	0	0	0	0	13
Polconic	0	0	3	0	0	0	0	3
Homolographic	0	0	1	0	0	0	0	1
Interrupted Homolographic	0	0	2	0	0	0	0	2
Mercator	0	0	0	0	0	0	1	1
Polar	0	0	0	0	0	0	1	1
Globular	0	0	0	0	0	0	3	3
Total	0	0	19	0	0	0	5	24

There was a total of twenty-four projections found in the 154 maps examined. Of this number there were seven different types of projections. Only two books C and G had maps that were considered as projections. Book C had the greatest variety of projections and all maps in this book were considered projections.

Table XI shows the numerical distribution of pictorial maps and maps with associative pictures found in seven fifth grade American history textbooks. Both of these type of maps are very interesting to children. The pictures on these maps tend to give the students a better knowledge of terrain and people of which the map tells a story.

TABLE XI

NUMERICAL DISTRIBUTION OF PICTORIAL MAPS AND MAPS
WITH ASSOCIATIVE PICTURES FOUND IN SEVEN FIFTH
GRADE AMERICAN HISTORY TEXTBOOKS

Book	Pictorial	Associative Pictures	Total
A	0	18	18
B	0	5	5
C	0	0	0
D	0	13	13
E	5	16	21
F	0	17	17
G	0	10	10
Total	5	79	84

Only book E had maps that were considered as pictorial and there were five maps of this type found in this book.

There was a total of seventy-nine maps that had associative pictures included as part of the map. They ranged from eighteen in book A to no maps in book C.

Table XII shows numerical distribution of the total number of pages, total number of maps, and the total number of pages of text per map found in seven fifth grade American history textbooks.

TABLE XII

NUMERICAL DISTRIBUTION OF THE TOTAL NUMBER OF PAGES,
TOTAL NUMBER OF MAPS, AND THE TOTAL NUMBER
OF PAGES OF TEXT PER MAP FOUND IN SEVEN
FIFTH GRADE AMERICAN HISTORY TEXTBOOKS

Book	Number of pages of text	Number of maps	Number of pages of text per map
A	459	18	25.50
B	369	9	41.00
C	236	19	12.42
D	392	24	16.33
E	445	39	11.41
F	431	17	25.35
G	452	28	16.14
Total	2,784	154	21.16 Average

Textbooks A, B, C, D, E, F, and G contained a total of 2,784 pages of text. They had a total of 154 maps, and averaged 21.16 pages of text to each map.

The number of pages of text ranged from 459 pages in book A to 236 pages in book C. Book G had the second largest number of pages with a total of 452 pages, and book E ranked third with a total of 445 pages.

The number of maps in each book varied from thirty-nine in book E to nine in book B.

Book G had the second largest number of maps -- twenty-eight, while book D had the third largest number -- twenty-

four.

The number of pages of text per map varied from 41.00 in book B to 11.41 in book E.

Book E had the greatest number of maps in relation to the number of pages of text. It has thirty-nine maps to 445 pages of text.

Book B had the smallest number of maps in relation to the number of pages of text. It had nine maps to 369 pages of text.

Table XIII shows numerical distribution of the total area and the total pages devoted to maps found in seven fifth grade American history textbooks.

TABLE XIII

NUMERICAL DISTRIBUTION OF THE TOTAL AREA AND THE TOTAL
PAGES DEVOTED TO MAPS FOUND IN SEVEN FIFTH GRADE
AMERICAN HISTORY TEXTBOOKS

Book	Total area	Total pages
A	537.75	20.68
B	137.88	5.99
C	902.29	19.04
D	578.38	22.03
E	469.26	18.02
F	556.58	23.07
G	718.78	21.84
Total	3,900.92	18.67 Average

There was a total of 3,900.92 square inches of area allotted to 154 maps. Book C allotted the greatest area to maps -- 902.29 square inches while book B allotted the least amount of area -- 137.88 square inches.

The average number of pages devoted to maps in the seven books was found to be 18.67. Book F allotted the greatest number of pages -- 23.07 while book B allotted the least number of pages -- 5.99.

Table XIV shows the numerical distribution of map activities found in the seven American history books examined. Map activities that require the use of the textbook maps in order to complete them tend to make such maps dynamic function-

al illustrations. All map activities aid the student in mastering map skills.

TABLE XIV

NUMERICAL DISTRIBUTION OF MAP ACTIVITIES FOUND IN
SEVEN FIFTH GRADE AMERICAN HISTORY TEXTBOOKS

Activities	Book							Total
	A	B	C	D	E	F	G	
Pertain to maps in book	17	7	41	3	8	40	24	140
Pertain to maps in general	11	0	0	14	5	9	21	60
Total	28	7	41	17	13	49	45	200

There was a total of 200 map activities found in the seven textbooks examined. There were 140 map activities that pertained to textbook maps. All books registered in this category. The range was from forty-one activities in book C to three activities in book D.

There was a total of sixty map activities that pertained to maps in general. Two books B and C did not register in this category. Book G had the greatest number with 21 activities.

In total map activities book B had the least number -- seven, while book F had the greatest number -- forty-nine.

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CHAPTER V

SUMMARY AND CONCLUSIONS

The purpose of this study was to analyze the maps found in seven fifth grade American history textbooks.

To carry out this study, the maps were analyzed according to number and form of captions, possession of a scale of miles, clarity of mechanical make-up, size, coloring, possession of a key, period, character, number of references, number of symbols, number of place names, number and kinds of projections, number of pictorial maps and maps with associative pictures.

A final tabulation was made of major findings in previous tables.

The location of a map list in each book was determined as well as the total number of pages devoted to maps.

Captions. Out of a total of 154 maps found in the seven books examined 135 maps possessed a caption of one type or another. Approximately 9 per cent of the maps, eighteen, were found to possess no caption. Books C, D, E, and F contained some maps without captions. Maps with captions only ranked first with eighty-seven, while maps possessing a caption with an explanatory statement ranked second with forty-

four.

Because of the small percentage of captionless maps found, it would appear that the authors, of the textbooks examined, realized the importance of a caption in helping to interpret the story that the map has to tell.

There were very few maps that possessed a caption accompanied by a question. Book D possessed four maps having a caption with a question while all other books had none. The writer is of the opinion that the authors of these textbooks are by-passing an effective method of making their maps dynamic functional illustrations.

Scale. There were 119 maps out of a total of 154 that had no scale of miles. All maps in book A, B, and E lacked a scale of miles.

Since many authorities agree that all maps should have a scale of miles, if for no other reason than to enable a student to measure distances, it would appear that the authors of these books disregard this feature.

Clarity. There were 142 maps out of 154 that were rated as good as regards clarity of mechanical make-up. Only books B, C, E, and F possessed maps that were rated either fair or poor and the number was small, although book B had four maps rated as fair and one map rated as poor out of a total of nine maps.

Size. The greatest number of maps, sixty-five, fell in the less than half page category for size. All books possessed maps in this category. Full page maps ranked next in total with forty-six. All books possessed maps in this category. There was a total of thirty-seven more than half to full page maps with some being found in all books. There were only six half page maps and these were found in books A and G.

Book A had the greatest number of full page maps -- fifteen, while book E had the least -- two.

A total of eighty-nine maps were at least half page or better in size.

Color. The majority of maps were black-and-white. Out of a total of 154 maps 108 were black-and-white. Five books registered in this category with books D, F, and G having all maps in black-and-white.

There were forty-six colored maps found in the seven books. Books A and B had all maps colored, while books D, F, and G possessed no colored maps whatsoever.

Key. The majority of maps had no key. There was a total of 111 maps out of 154 that did not have a key. All books registered in this category with book E having the greatest number -- thirty-three, and book B having the least -- three.

There were forty-three maps that possessed a key. All books had maps in this category with book C having the greatest

number -- thirteen, and book A having the least -- three.

Period. There was a total of twelve maps found in the seven books that depicted events or areas prior to the discovery of America. All books had at least one map in this category with the exception of book F which had none. Book A had the greatest number -- three.

A total of fifty-seven maps depicted events or areas in the period recorded as the first half of American history. All books had maps in this category with books D, E, and G having the greatest number -- twelve each, while book F had the least -- three.

A total of eighty-five maps, found in the seven books examined, depicted areas or events in the period recorded as the second half of American history. All books registered in this category with book E having the greatest number -- twenty-five, while book B had the least -- three.

From the results found in studying the number of maps allotted to the three periods it would appear that the authors of the seven books stress the period recorded as the second half of American history (1721-1949).

Character. The character of maps was divided into fifteen categories. No single book registered maps in all categories. Books E and G appeared to be the most versatile as regards the different categories of maps, each registered in ten categories. Books A and B were the least versatile

registering in six categories.

The greatest number of maps were found to be characterized by exploration -- thirty-nine. All books possessed maps in this category, with books A and D having the greatest number -- eight each. Books B and F had the least -- three each.

There were twenty-four maps that were characterized as mainly political. All books possessed maps in this category with book E having the greatest number -- twelve, and book F the least -- one. Books B, C, D, and G each had two maps in this category.

There were nineteen maps that depicted settlement areas. Books A, B, and F possessed no maps in this category, while book C possessed nine maps.

There were fifteen maps that depicted expansion. All but book D possessed maps in this category. Book G had the greatest number -- six.

The remainder of the categories of character was divided as follows: war -- thirteen, all but books B and G registered maps in this category; political war -- eleven, all but book D registered maps in this category; regional -- ten, only books D, E, and F registered in this category; and political possession -- seven, all but books B, C, and F registered in this category. The remaining categories all had five or less maps registered in them.

The outstanding deduction to be drawn from this examination, of the character of maps, is that exploration re-

ceived the greatest amount of stress.

Type. All but one map out of a total of 154, found in the seven books examined, were considered as functional illustrations. The only non-functional illustration was found in book E, and this was associative in nature.

It is self evident, from the aforementioned result, that the authors of the seven books studied recognize the fact that a map should be a functional illustration and act as a visual aid in developing an understanding of the textual material.

References, symbols, and place names. There was a total of 5,895 references, symbols, and place names found on 154 maps in the seven books studied.

There were 300 references pertaining to the maps in the seven books. Book C had the greatest number of references -- 142, while book E had the least -- fifteen.

There were 1,109 different symbols found on all maps in the seven books. Book C had the greatest number -- 277, while book B had the least -- seventy-one.

There were 4,486 place names found on 154 maps. Book C had the greatest number -- 1,428, while book B had the least -- 204.

The total number of symbols and place names attest, in some measure, to the complexity of a map, thus the maps in book C might be said to be more complex, in general, than those

found in any of the other six books.

Location of map list. Three Books D, F, and G did not list the maps used. Books B and C listed their maps in the index, book A listed the maps in the table of contents, and book E listed the maps in the appendix.

The authors of those books not listing maps fail to recognize the fact that such a list provides an additional means of quick reference and reference practice for the student. From this study it would appear that the ideal place to locate a map list is either as part of the table of contents or in the appendix. Maps are an important part of a history textbook and should be listed.

Projections. There was a total of twenty-four projections found in the 154 maps examined. Of this number there were seven types of projections. Only two books C and G had maps that were considered as projections. Book C had the greatest variety of projections and all maps in this book were considered projections.

The authors of those textbooks not including projections fail to recognize the fact that a history textbook can provide additional means for the student to become acquainted with map projections. At least a small percentage of the maps included in history textbooks should be of some projective type.

Pictorial maps and maps with associative pictures.

Only book E had maps that were considered pictorial, and there were five maps of this type found in this book.

There was a total of seventy-nine maps that had associative pictures included as part of the map. Book A had the greatest number -- eighteen, while book C had none.

Number of pages, maps and pages of copy. The seven textbooks contained a total of 2,784 pages of text. They had a total of 154 maps, and averaged 21.16 pages of text to each map.

The number of pages of text ranged from 459 pages in book A to 236 pages in book C. Book G had the second largest number of pages with a total of 452 pages, book E ranked third with a total of 445 pages.

The number of maps in each book varied from nine in book B to thirty-nine in book E.

Book G had the second largest number of maps -- twenty-eight, while book D had the third largest number -- twenty-four.

The number of pages of text per map varied from 41.00 in book B to 11.41 in book E.

Book E had the greatest number of maps in relation to the number of pages of text. It had thirty-nine maps to 445 pages of text.

Book B had the smallest number of maps in relation to

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the number of pages of text. It had nine maps to 369 pages of text.

Total area and number of pages devoted to maps. There was a total of 3,900.92 square inches of area allotted to 154 maps. Book C allotted the greatest area to maps -- 902.29 square inches, while book B allotted the least amount of area -- 137.83 square inches.

The average number of pages devoted to maps in the seven books was found to be 18.67. Book F allotted the greatest number of pages -- 23.07, while book B allotted the least number of pages -- 5.99.

Number of map activities. There was a total of 200 map activities found in the seven textbooks examined. There were 140 map activities that pertained to textbook maps. All books registered in this category. The range was from forty-one activities in book C to three activities in book D.

There was a total of sixty map activities that pertained to maps in general. Two books B and C did not register in this category. Book G had the greatest number with twenty-one activities.

In total map activities book B had the least number -- seven, while book F had the greatest number -- forty-nine.

The most significant conclusion to be drawn from this study is the fact that maps in history textbooks have limitations. The ever-alert classroom teacher must coordinate the

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textbook maps with larger wall maps and the globe so as to give the student a good understanding of the relative location of areas where events occurred. The teacher must also be the driving force in making the textbook maps dynamic functional illustrations.

Limitations of this study. There are certain limitations that are evident in this study. Not all of the textbooks on a fifth grade level were analyzed. No attempt was made to analyze the place names found on maps. No attempt was made to determine the books that contained like maps according to caption or information depicted on the maps. No attempt was made to classify maps according to such types as topographic, relief, etc. The accuracy and source of maps was not determined. No attempt was made to classify maps according to certain periods such as Civil War, World War I, etc.

Suggestions for further study. Throughout this study the following topics came to the writer's attention as possibilities for further research.

1. The same type of map analysis, as carried out in this study, could be employed in analyzing the maps found in another series of fifth grade American history textbooks, and a comparison of both studies could be made.

2. The same type of analysis could be made with a larger number of history textbooks.

3. The same type of map analysis, as used in this

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study, could be employed in analyzing the maps found in a series of fifth grade American history textbooks copyrighted a decade ago for the purpose of comparing the results of both studies.

4. An analysis could be carried out comparing the number of place names found on maps with those found in the text.

5. The same type of map analysis could be made with geography textbooks.

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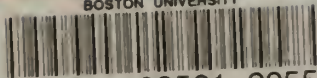
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