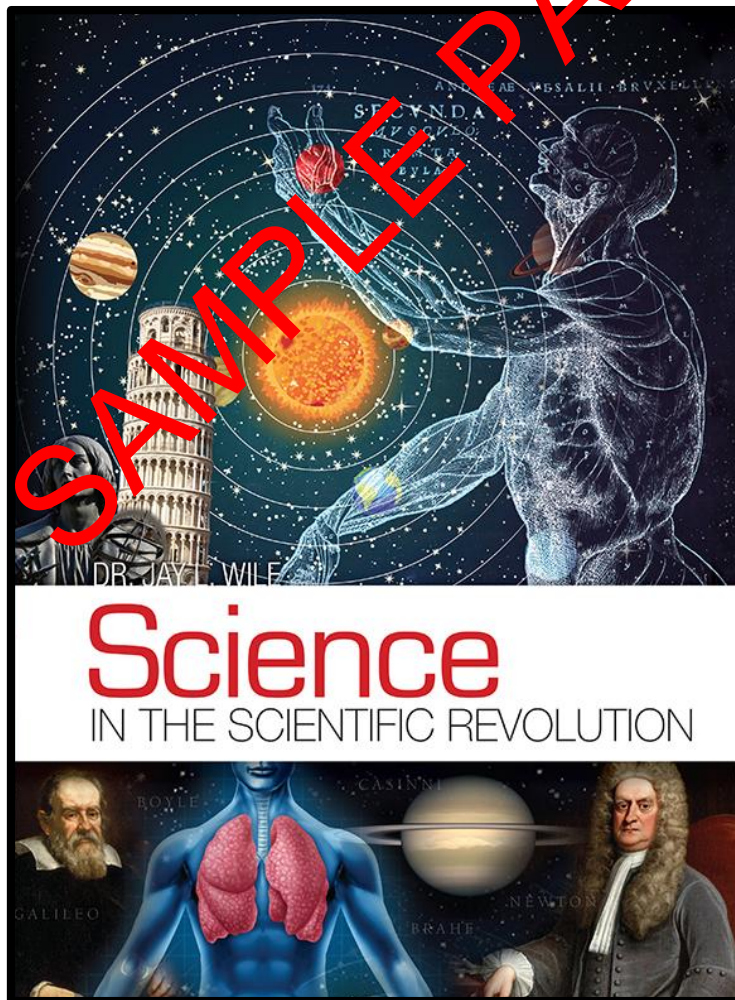




Grades 4 and up

**Jay Wile**

**Science in the Scientific Revolution  
Binder-Builder by  
A Journey Through Learning**



[www.ajourneythroughlearning.com](http://www.ajourneythroughlearning.com)

Please check our website at:  
[www.ajourneythroughlearning.com](http://www.ajourneythroughlearning.com)

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You'll also receive great discount codes, special offers, and find out  
what's new and what's to come!

Join us on Facebook!  
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This binder-builder is especially made to go along with  
**Science in the Scientific Revolution**  
curriculum by Jay Wile

It was created with his blessing!  
See all of Jay Wile's science products at  
[www.bereanbuilders.com](http://www.bereanbuilders.com)

Authors: Nancy Fileccia and Paula Winget  
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## Acknowledgments

A special thank you to Jay Wile for permission to use his wonderful book *Science in the Scientific Revolution*. We also thank him for his valuable input and editing of the original manuscript.

*Science in the Scientific Revolution* is published by Berean Builders.

**SAMPLE PAGE**

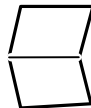
## Materials Needed

### What you need to get started

- \*A printed copy of the Science in the Scientific Revolution–Binder-Builder™ by A Journey Through Learning
- \*A Printed copy of Science in the Scientific Revolution textbook by Dr. Jay Wile
- \*90 pieces of 8.5 x 11 colored cardstock
- \*3 inch 3-ring binder with clear sleeve on the front
- \*Scissors
- \*Glue (We recommend Zip Dry Glue or Elmer's Xtreme)
- \*Hole puncher
- \*Brads
- \*Stapler
- \*Crayons and/or colored pencils
- \* 4 tabs- Label your tabs: Key Person, Vocabulary, Experiment, Books

## Terminology used throughout Binder-Builder™

**Hamburger Fold-** Fold horizontally



**Hotdog Fold-** Fold vertically



**Folds-** Sometimes labeled with a small line to show where the fold is.

**Dotted Lines-** These are the cutting lines.

**Cover Labels-** Some of the booklets will have a cover label that will need to be glued to the top to cover a blank space.

## What is a Binder-Builder?

A Binder-Builder is a new name for an old concept! It is simply taking a 3-ring binder and colored cardstock and turning it into a wonderful showcase of your child's learning year!

## How Do I Use it With Science in the Scientific Revolution?

The *Science in the Scientific Revolution* textbook is broken up into 6 units. Each unit has 15 lessons. By using the Binder-Builder along with Dr. Wile's textbook, you will be able to add a hands-on component to learning; one that is not found when using a textbook alone. All the Binder-Builder pages are neatly organized in a 3-ring binder. This includes the lapbooking component and all the journal pages, reports, experiments, and more!

This product is meant to be fun, NOT stressful. So use it to enhance your child's learning experience. Each unit has two or more fun booklets to complete. Feel free to tailor the booklets to your child. Some days your child can simply draw instead of write or find the information on the internet and glue it onto the booklet. The choices are numerous. So, gather the kids and let the learning begin!

## How Do I Set Up My Binder-Builder?

Gather your pieces of cardstock and 3-hole punch them. Next, in the lower right-hand corner number your cardstock from 1-90. Place in 3-ring binder. Add your 4 labeled tabs behind the cardstock. You will store all of your worksheets behind these tabs.

The front of the first page will have your cover sheet glued to it. The first page of each lesson is a Journal page. We have created **TWO different forms**. One for younger kids and one for older. **Choose the one best for your child.** This sheet will be glued to the **back** of your cover sheet. The **booklets** for your **first** lesson will then be glued to the **front** of your **second** page. This lay-out allows you to view anything for the unit you are studying at the same time! You will follow this process throughout the entire binder-builder.

Located at the top right corner of each page, you will find the lesson and unit where it can be found in your book. Each page will also have all directions for the construction of the mini-booklet, pages to read, and what your student will record in the mini-booklet after reading to show what is learned. A small key is also here to show you where to glue each mini-booklet onto the card stock.

At the beginning of each **unit (15 lessons in each unit)** you will find a master form for: Key Person, Vocabulary words, Experiments, and Book List. Please make as many copies of these form as you need for each lesson.

# Science in the Scientific Revolution

This Binder-Builder Belongs :

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School Year:

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Journal Page 64  
(older kids)

**64. Antoni van Leeuwenhoek**  
**The Revolution Near the End of the 17<sup>th</sup> Century**

Explain what van Leeuwenhoek was able to do in order to make his microscope magnify so well.



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What did van Leeuwenhoek call the microscopic organisms he saw?

What do scientists call them today?

SAMPLE PAGE

Journal Page 64  
(oldest kids)

**64. Antoni van Leeuwenhoek**  
**The Revolution Near the End of the 17<sup>th</sup> Century**

Explain what van Leeuwenhoek was able to do in order to make his microscope magnify so well.



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What did van Leeuwenhoek call the microscopic organisms he saw?

What do scientists call them today?

SAMPLE PAGE

Offer a possible explanation for the fact that when some people use a microscope made exactly like van Leeuwenhoek's was made , they see protozoa, but they don't see bacteria.

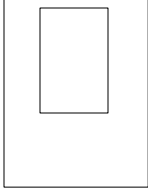
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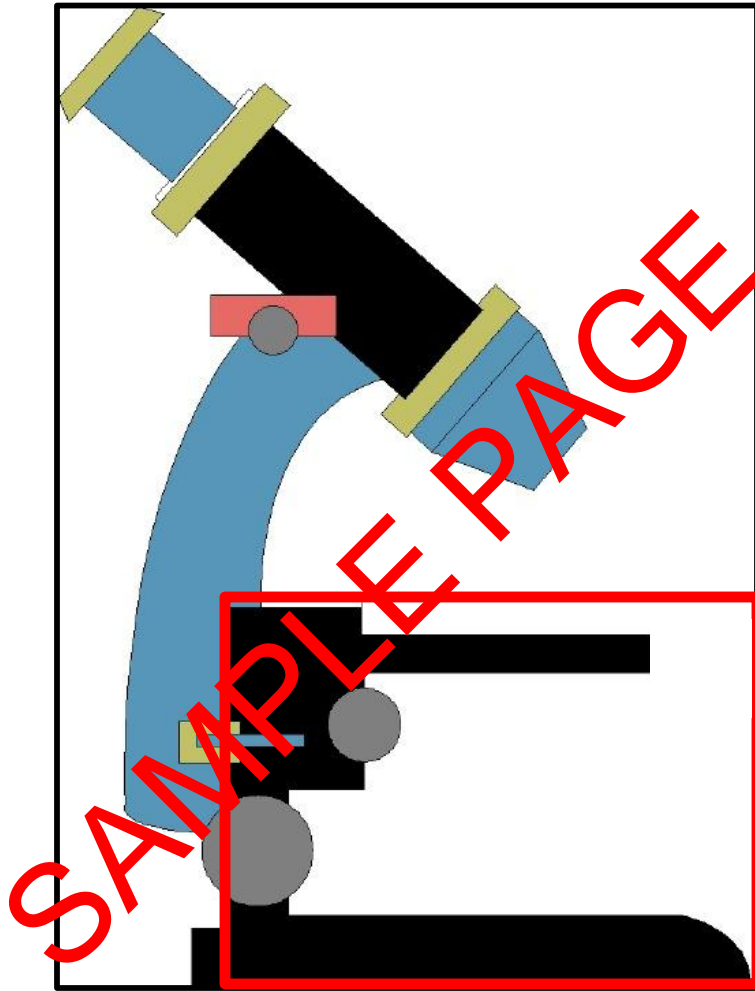




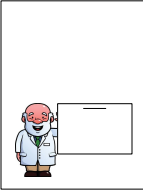
**Read Lesson 64.**

Cut out both pieces. Staple the question box on to the red box. Glue onto the front of page 51.

**Directions:** Write your answer underneath the flap.



What did van Leeuwenhoek make that allowed his microscope to magnify things so well?



**Read Lesson 64.**

Cut out both pieces. Staple the question box on to the red box. Glue onto the front of page 51.

**Directions:** Write your answer underneath the flap.



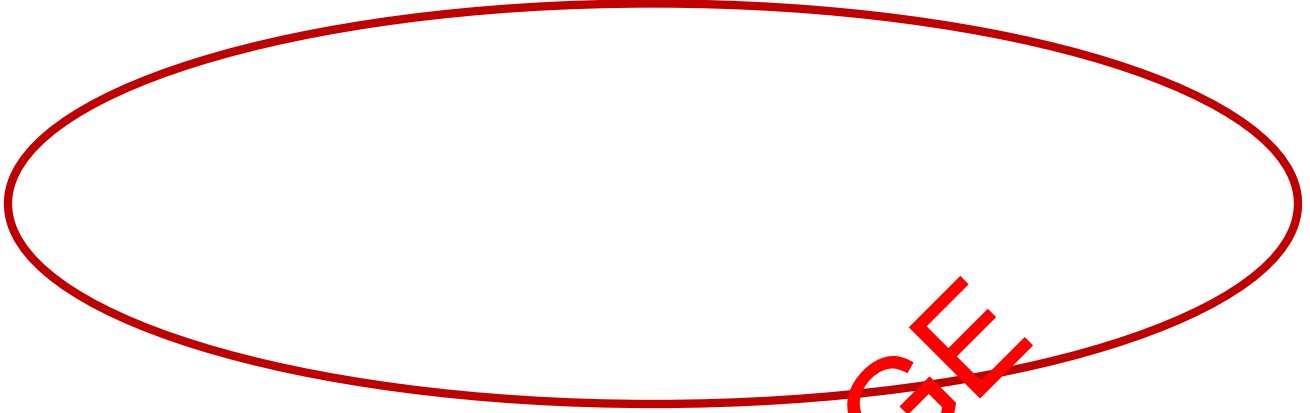
What do scientists call the things that van Leeuwenhoek called “animalcules?”

This is the form for OLDER KIDS. Cut out and glue to the back of page 51.

Journal Page 65  
(older kids)

**65. Antoni van Leeuwenhoek on Populations  
and Spontaneous Generation**  
**The Revolution Near the End of the 17<sup>th</sup> Century**

Make an illustration to help explain how van Leeuwenhoek was able to estimate the population of microscopic organisms in a drop of water.



Explain why van Leeuwenhoek's method is very useful.

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**SAMPLER PAGE**



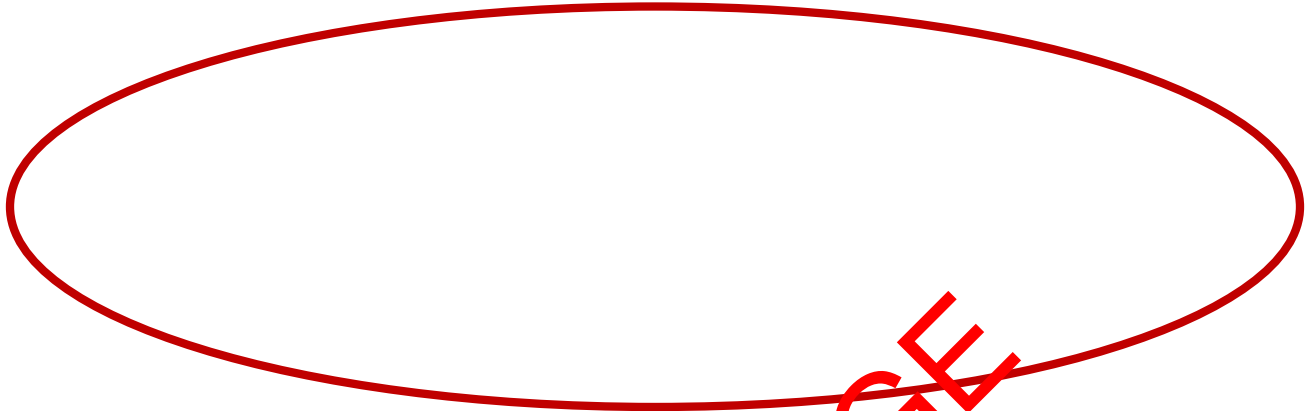
Write down what van Leeuwenhoek thought about **spontaneous generation**.

This is the form for OLDEST KIDS. Cut out and glue to the back of page 51.

Journal Page 65  
(oldest kids)

**65. Antoni van Leeuwenhoek on Populations  
and Spontaneous Generation**  
**The Revolution Near the End of the 17<sup>th</sup> Century**

Make an illustration to help explain how van Leeuwenhoek was able to estimate the population of microscopic organisms in a drop of water.



Explain why van Leeuwenhoek's method is very useful.

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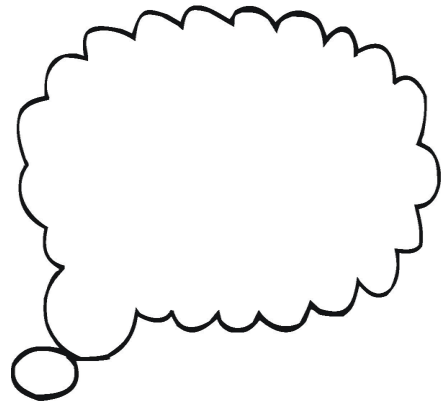
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**SAMPLE PAGE**



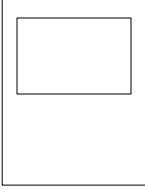
Write down what van Leeuwenhoek thought about **spontaneous generation**.

Try to come up with a situation in which van Leeuwenhoek's method could come up with an incredibly wrong answer.

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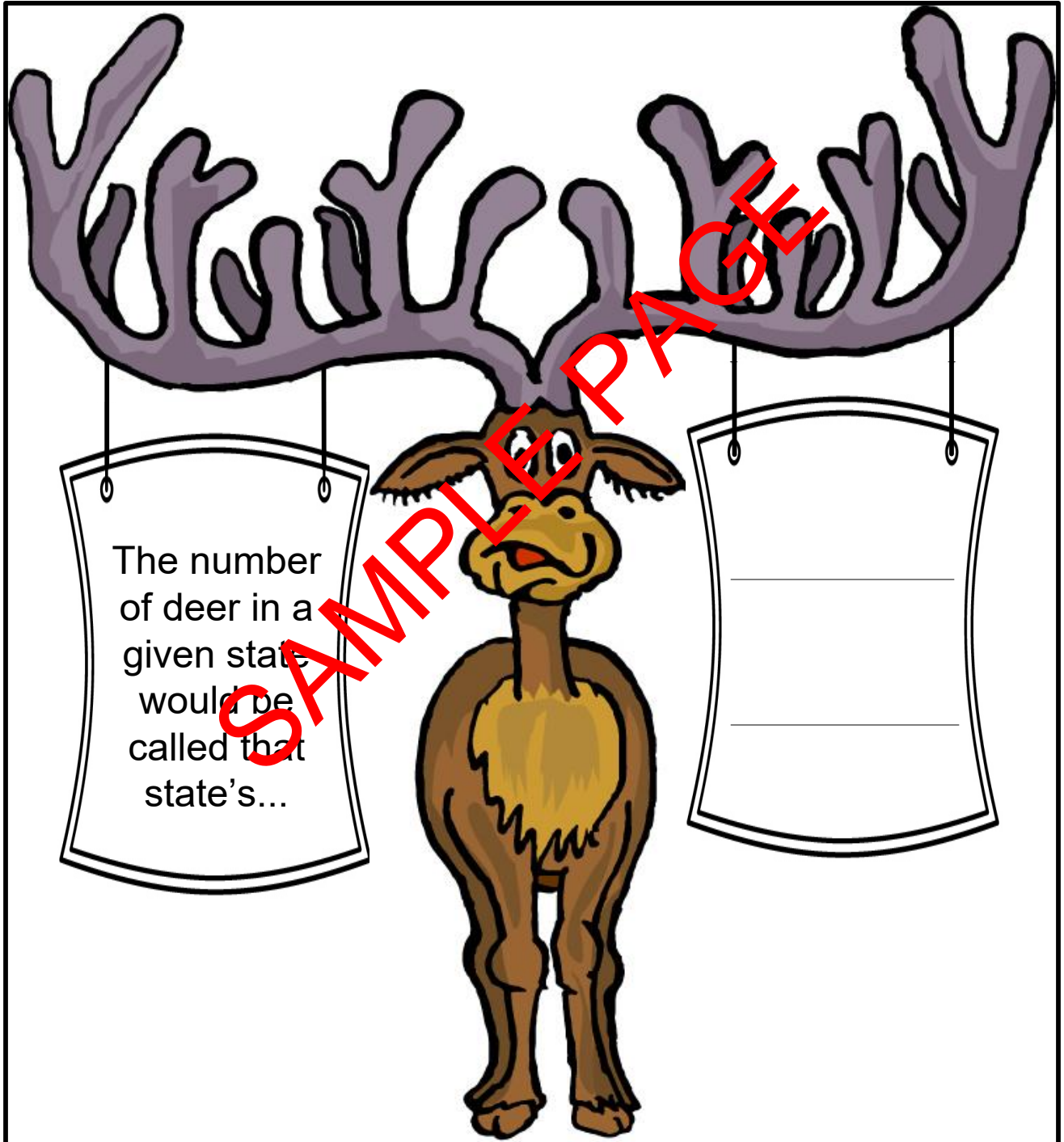
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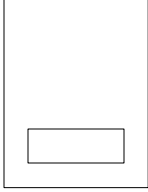


**Read Lesson 65.**

Cut out piece. Glue onto the front of page 52.

**Directions:** Write your answers on the lines.





**Read Lesson 65.**

Cut out booklet. Fold in the middle. Glue onto the front of page 52.

**Directions:** Write your answer inside the booklet.

SAMPLE PAGE

What did van Leeuwenhoek  
think of *spontaneous generation*?

### American History

American Revolution  
An Overview of the 17<sup>th</sup> Century  
An Overview of the 18<sup>th</sup> Century  
An Overview of the 19<sup>th</sup> Century  
An Overview of the 20<sup>th</sup> Century  
Christopher Columbus  
Civil War  
Colonial America  
Early Explorers  
George Washington  
George Washington's  
Rules of Civility and Decent Behavior  
Going West  
If You Lived...Martin Luther King, Jr.  
Louisiana Purchase  
Pioneer Days  
Titanic  
Wars of America (1600-1899)  
Wars of America (1900-now)  
Welcome to Ellis Island

### Ancient History Lapbooks

Ancient Greece  
Ancient Olympics  
Ancient Rome  
Aztecs  
Knights and Castles  
Mesoamerica  
Middle Ages  
Renaissance  
Vikings

### Bible Lapbooks

ABC Bible Pocket Games  
Arrival of a King  
Death and Resurrection of a King  
New Testament  
Old Testament  
Parables of a King

### Early Learning Lapbooks

All About Me  
ABC Pocket Games  
ABC Bible Pocket Games  
Community Workers  
Daily Helpers Grade K  
Learning About Farm Animals  
Learning About Zoo Animals  
Learning Basic Skills  
Letters, Numbers, and Shapes  
Me and My Body  
My Community and It's Workers  
Kindergarten Basic Skills

**New titles added  
constantly!**

### Geography Lapbooks

Africa  
Antarctica  
Asia  
Australia  
Canada  
Exploring Canada  
Exploring Europe  
Exploring France  
Exploring Russia  
Europe  
My Favorite Country  
My State  
North America  
Oceans of the World  
South America  
All Individual States

### Government Lapbooks

America's Presidents  
Inauguration Day  
Freedom Isn't Free  
Presidential Pocket Games  
Gov. & the Election grades 2-5  
Gov. & the Election grades 6-8  
Washington D.C.

### Grade 1-4 Lapbooks

Absolute Monarchs  
Amphibians  
Birds  
Classifications  
Colonial America  
Cowboys  
Earth Day  
Exploring Africa  
Exploring American Indians  
Exploring Ancient Egypt  
Exploring Ancient Greece  
Exploring Ancient Rome  
Exploring China  
Exploring Explorers  
Exploring Mesopotamia  
Exploring Middle Ages  
Exploring Science  
Exploring South America  
Exploring Space  
Fish  
Going West  
Heading West  
My Community and  
It's Workers  
Mammals  
Pirates  
Plants  
Reptiles  
The Earth

### Science Lapbooks

Apologia/Jeannie Fulbright  
Amphibians  
Astronomy and Space  
Desert  
Dinosaurs  
Earth Day  
Electricity  
Exploring Physics  
Genetics  
Great Inventors  
Horses  
Hurricanes  
Inside my Body  
Kingdom Animalia  
My Favorite Animal  
My Favorite Insect  
Ocean Animals  
Oceans of the World  
Pollution  
Researching Birds  
Researching Mammals  
Researching Sea Animals  
Reptiles  
The Rainforest  
Tornados  
Turtles  
Volcanoes  
Women Inventors

### Math Lapbooks

Addition Pocket Games  
Subtraction Pocket Games  
Multiplication Pocket Games  
Division Pocket Games  
Daily Helpers (all primary grades)  
Measurement

### Social Studies Lapbooks

America's Greatest Documents  
America's Historical Landmark  
American Indians  
Earth Day  
Pollution

**Curriculum Lapbooks for:**  
**Apologia/Jeannie Fulbright Science**  
**TruthQuest History**  
**Geography Matters**  
**Diana Waring History Revealed**  
**Maestro Classics**  
**Prairie Primer**  
**Classical Conversations Supplements**  
**A History of Us**  
**Jay Wile Science**