



Grades 4 and up

Jay Wile

Science in the Ancient World

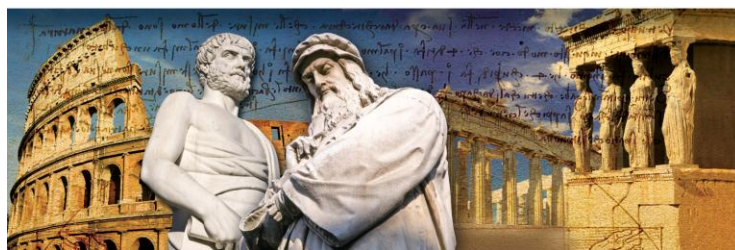
Binder-Builder by
A Journey Through Learning



DR. JAY L. WILE

Science

IN THE ANCIENT WORLD



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This binder-builder is especially made to go along with
Science in the Ancient World
curriculum by Jay Wile

It was created with his blessing!

See all of Jay Wile's science products at
www.bereanbuilders.com

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Acknowledgments

Special thank you to Jay Wile for permission to use his wonderful book *Science in the Ancient World*.

Also for his valuable input and editing of the original manuscript.

Science in the Ancient World is published by Berean Builders.

SAMPLE PAGE

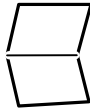
Materials Needed

What you need to get started

- *A printed copy of the Science in the Ancient World–Binder-Builder™ by A Journey Through Learning
- *A Printed copy of Science in the Ancient World book
- *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 Ancient World?

The *Science in the Ancient World* book is broken up into 6 units. Each unit has 15 lessons. By using the Binder-Builders along with this wonderful program, you will be able to bring and gather so much of what your child is learning and store it into one fun-packed binder! No more lost papers. In one location your child will store journal pages, reports, experiments, and more!

This product is meant to be fun, NOT stressful. So use it to enhance your learning experience. Feel free to tailor the booklets to your child. Some days you can simply draw instead of write. Or find the information on the internet and glue it onto the booklet. The choice is YOURS! Each unit has two or more fun booklets to complete. 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 Ancient World

This Binder-Builder Belongs :



School Year:

Table of Contents

Lessons 1-15 Science Before Christ, Part 1

1. When Did Science Begin?
2. Math and Science
3. Pythagoras
4. But What Is Pitch?
5. Why is Length Related to Pitch?
6. Democritus
7. Some Incorrect Ideas about Atoms
8. Some Correct Ideas about Atoms
9. An Introduction to Atoms
10. More about Atoms
11. Hippocrates
12. Hippocrates and Blood
13. Hippocrates and Bile, Part 1
14. Hippocrates and Bile, Part 2
15. Hippocrates and Phlegm

SAMPLE PAGE

Key Person report form. Please make as many copies of this form as you need. Use this form to research any inventor or invention that you would like to learn more about.

Vocabulary Words report form. Please make as many copies of this form as you need. Use this form to write down any words you do not know and would like to learn.

Experiment Sheet form. Please make as many copies of this form as you need. Use this form to write down the experiments for each lesson.

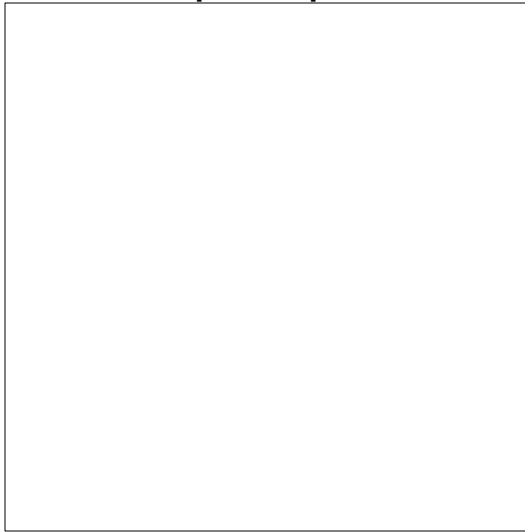
Book List form. Please make as many copies of this form as you need. Use this form to write down any extra books that you use in each lesson.

Place behind your **Key Person tab** when you are done.
Make as many copies of this page as you need.

Lesson:
Science Before Christ, Part 1
Key Person

Name: _____

Draw or glue a picture of the
natural philosopher here.



Date of Birth: _____

Date of Death: _____

This person was famous or remembered for:

Draw or glue a picture of the
discovery here.



Tell about the discovery.

SAMPLE PAGE

Place behind your **Vocabulary tab** when you are done.
Make as many copies of this page as you need.

Science Before Christ, Part 1
Vocabulary Words

SAMPLE PAGE

Place behind your **Experiments tab** when you are done.
Make as many copies of this page as you need.

Lesson:

Science Before Christ, Part 1

Experiment:

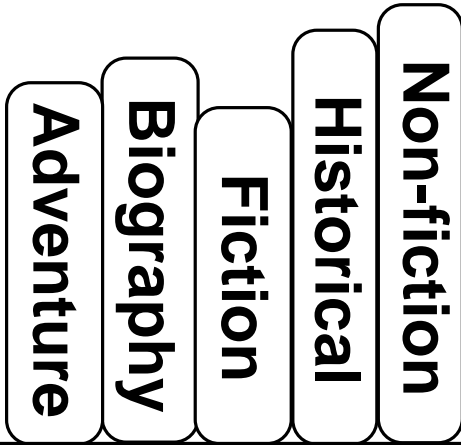
Materials needed:

What I Did:

What I Learned:

SAMPLE PAGE

Place behind your **Book tab** when you are done.
Make as many copies of this page as you need.



Lesson:
Science Before Christ, Part 1

Date	Genres	Title & Author

SAMPLE PAGE

This is the form for OLDER KIDS. Cut out and glue to the back of page 1.

Journal Page 1
(older kids)

**1. When Did Science Begin?
Science Before Christ, Part 1**

What I have learned about Thales

Draw a picture Thales.

SAMPLE PAGE

This is the form for OLDEST KIDS. Cut out and glue to the back of page 1.

Journal Page 1
(oldest kids)

**1. When Did Science Begin?
Science Before Christ, Part 1**

Who was Thales?

Length of the ruler: _____

Divided by the length of the ruler's shadow _____

Factor = _____

Factor _____

X (times) the length of your own shadow _____

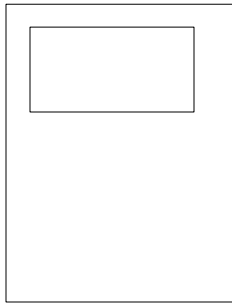
= _____

the length of the tree's shadow _____

X (times) the factor _____

THE HEIGHT OF THE TREE! = _____

SAMPLE PAGE



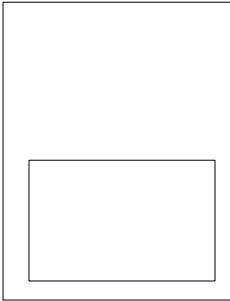
Read Lesson 1.

Cut out the booklet as one piece. Fold in half. Glue onto the front of page 2.

Directions: Inside of the booklet, write your answer.

SAMPLE PAGE

What is the name of the philosopher who started trying to figure out why things happened?



Read Lesson 1.

Cut out both pieces. Hamburger fold smaller booklet in the middle and glue into white space at top of bigger piece. Now glue big piece onto the front of page 2.

Directions: Inside of the booklet, write what you have learned.

Glue smaller booklet here

SAMPLE PAGE

Why Did He Travel to
Egypt?

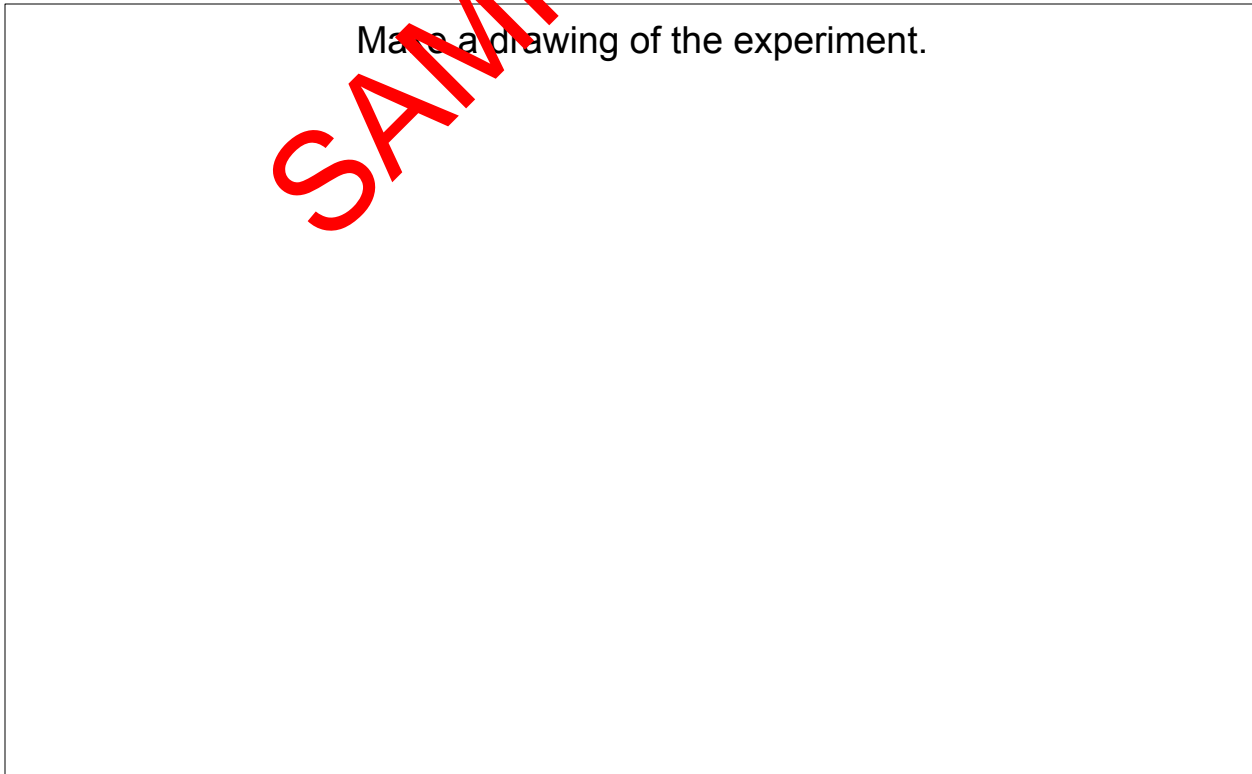
This is the form for OLDER KIDS. Cut out and glue to the back of page 2.

Journal Page 2
(older kids)

2. Math and Science
Science Before Christ, Part 1

Explain your experiment.

Make a drawing of the experiment.



SAMPLE PAGE

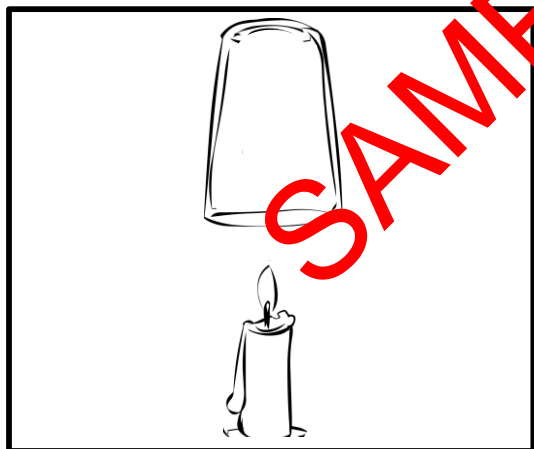
This is the form for OLDEST KIDS. Cut out and glue to the back of page 2.

Journal Page 2
(oldest kids)

2. Math and Science
Science Before Christ, Part 1

Explain your experiment.

What other chemical (besides water) is made when wax is burned. Why didn't you see it in this experiment?

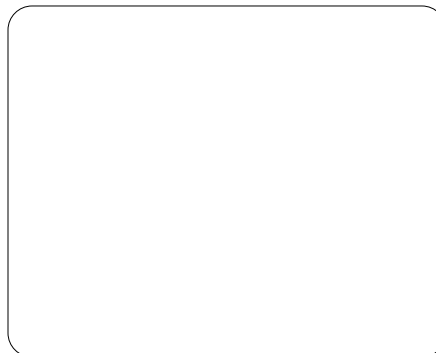
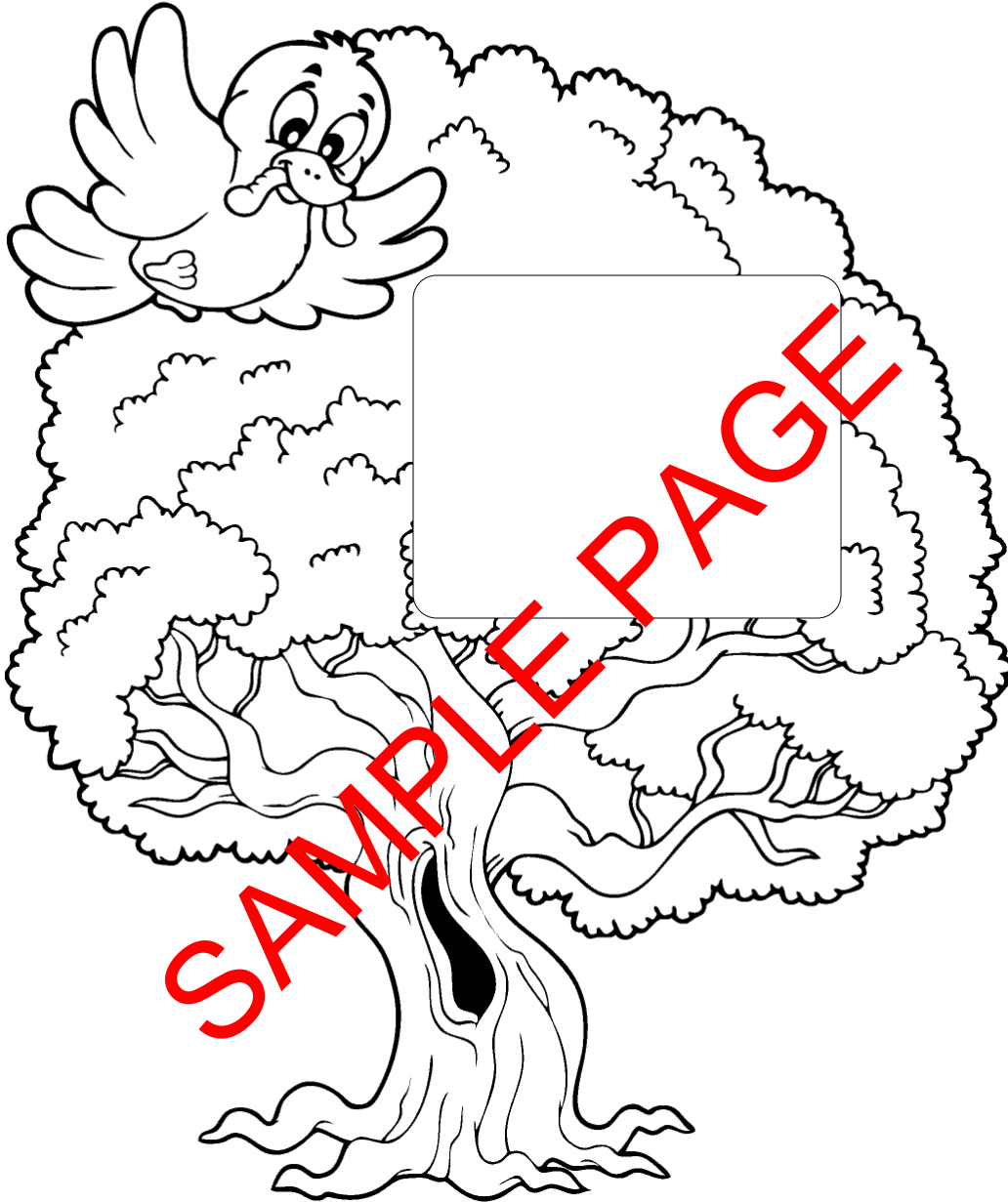




Read Lesson 2.

Cut out the tree. Cut out the small booklet. Fold in half. Glue the smaller booklet onto the tree. Glue onto the front of page 3.

Directions: Inside of the booklet, write your answer.



What did Thales measure by using the tree method?



Read Lesson 2.

Cut out the booklet as one piece. Fold in half. Glue onto the front of page 3.

Directions: Inside of the booklet, write your answer.

SAMPLE PAGE

**What is ONE of the
chemicals that is made
when you burn wax?**

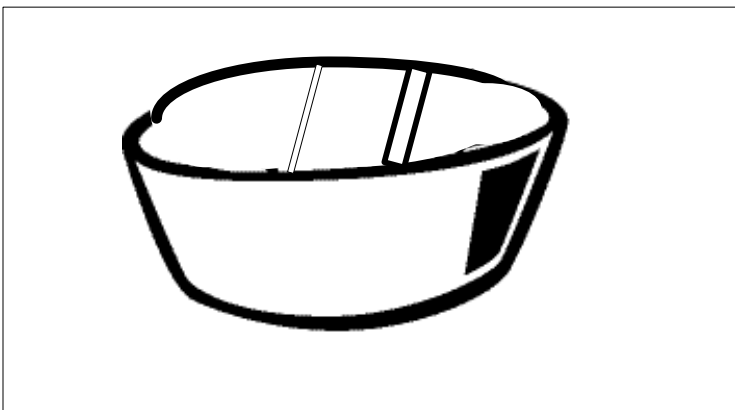
This is the form for OLDER KIDS. Cut out and glue to the back of page 3.

Journal Page 3
(older kids)

3. Pythagoras
Science Before Christ, Part 1

Describe the experiment:

What is the relationship between the length of the portion of the rubber and the pitch of the sound that the rubber band made?



This is the form for OLDEST KIDS. Cut out and glue to the back of page 3.

Journal Page 3
(oldest kids)

3. Pythagoras
Science Before Christ, Part 1

Describe the experiment: _____

What is the relationship between the length of the portion of the rubber and the pitch of the sound that the rubber band made?

List the seven letters that are used to identify the basic musical notes.

What is an octave? _____

What did Pythagoras figure out about the length of a musical string and the octave?

SAMPLE PAGE