

# LESSON 1: WHAT IS ASTRONOMY

## ☐ **Daily Assignment:**

Make Creation Confirmation Bookmark

Welcome

The Night Sky

Stars and Planets

Apologia Science Kit Activity: Why Do Stars Twinkle and Planets Do Not

Clocks, Calendars, and Seasons

Apologia Science Kit Activity: Make a Sundial

## ☐ **Daily Assignment:**

Navigation

Apologia Science Kit Activity: Make Your Own Astrolab

Gravity

Our Solar System

Activity 1.1: Create Your Own Mnemonic

Astronomers and Astronauts

Scripture Copywork

## ☐ **Daily Assignment:**

Minibook Activity

Satellites

Crossword Vocabulary Review

## ☐ **Daily Assignment:**

Activity 1.2: Build a Model Solar System

What Do You Remember?

# PARENT GUIDE

## USING THIS ASTRONOMY NOTEBOOKING JOURNAL

This notebooking journal was specifically designed to help your young scientist navigate, investigate, and create unique materials that support the textbook *Exploring Creation with Astronomy, 2nd edition* by Apologia. Please take a moment to familiarize yourself with each section.

## SUGGESTED DAILY SCHEDULE

A suggested schedule for reading *Exploring Creation with Astronomy, 2nd edition* and completing the activities contained in both the textbook and this journal has been provided. The schedule is flexible and should be adjusted to fit your family's goals. It also includes the activities found in the Apologia Science Kit. If you did not purchase the kit, you may ignore these assignments.

## FASCINATING FACTS AND PERSONAL REFLECTIONS

Young scientists should be regularly encouraged to document their expanding knowledge as a means to aid their retention of important facts. This notebook provides plenty of space for students to record and illustrate fascinating facts that they learn from their textbook. Students should be encouraged to read an assignment, discuss what they've learned, and write, in their own words, what they remember. Additionally, this notebook is meant to be a personal journal for your student. Most science courses fail students in that they only present facts and do not ask students to internalize what they are learning and what it means to them in their lives. This section of your student's notebook allows your student to journal personal reflections on God's amazing creation. Apologia recommends that parents encourage their students to realize that they have a unique place in creation and that science is a way to understand their world.

## SCRIPTURE COPYWORK

Science is the endeavor of explaining the truth of the world around us, and God is the source of both creation and truth. Incorporating the Word of God into your science studies through Scripture copywork will encourage stronger faith while practicing handwriting. Each lesson has a corresponding verse for your child to copy in both print and cursive.

## ACTIVITY DOCUMENTATION

Young scientists should be encouraged to practice a simplified scientific method by documenting the process and outcome of each textbook activity. Specific documentation pages are provided in this notebook for every textbook activity. Studies have shown that students who understand the scientific process also understand logic. Applying logic to life's situations is a valuable tool to have.

## MINIATURE BOOKS

The miniature books are designed to be a fun way to assist student review and retention of the concepts learned in each lesson. Paste pages are included for each miniature book to preserve and display them.

## VOCABULARY REVIEW

Vocabulary review pages are provided to help reinforce new words and concepts. Answers can be found in the appendix of this notebook.

## TAKING IT FURTHER

Many students will choose to read outside materials, watch videos, and visit places that are relevant to this course. Additionally, if you purchased the Apologia Science Kit that corresponds to this title, there are extra activities for your student. This notebook provides a space for your student to document these resources and activities. There is no set requirement for these pages, and we encourage students to use their imagination.

## “WHAT DO YOU REMEMBER” REVIEW QUESTIONS



These review questions are the same questions found at the end of each textbook lesson. They can be answered verbally or as a written assignment. If you use them as a written assignment, we recommend that you see them as a review and not a test. Students should be allowed to use their notes to answer the questions. Allowing students to do this will encourage them to take better notes in the future. Young minds should be granted the freedom to explore creation without the risk of “failure.” The ultimate goal is to have students realize that science is not a course, but rather a means to understanding the beauty of God’s signature surrounding them. Answers for these questions can be found in the appendix of the *textbook*.

## FINAL REVIEW

At the end of this notebooking journal are questions that review the entire course. They can be answered verbally or as a written assignment. Again, we recommend that this not be used as a test, but rather as a way to help children realize all that they have learned during the school year. Since these questions are *not* included in the textbook, answers to these questions can be found in the appendix of this notebook.

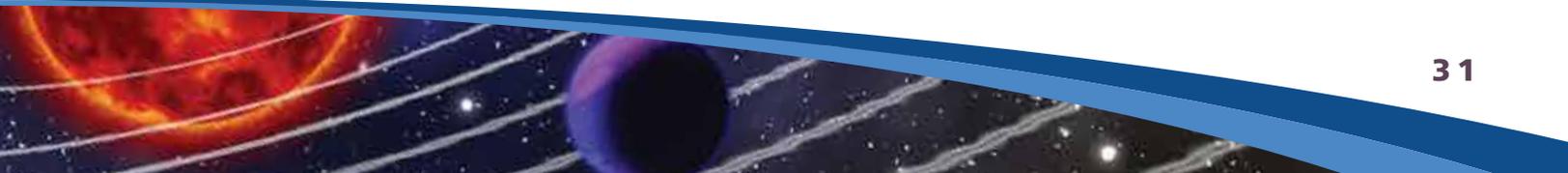
LESSON 1

# WHAT IS ASTRONOMY?





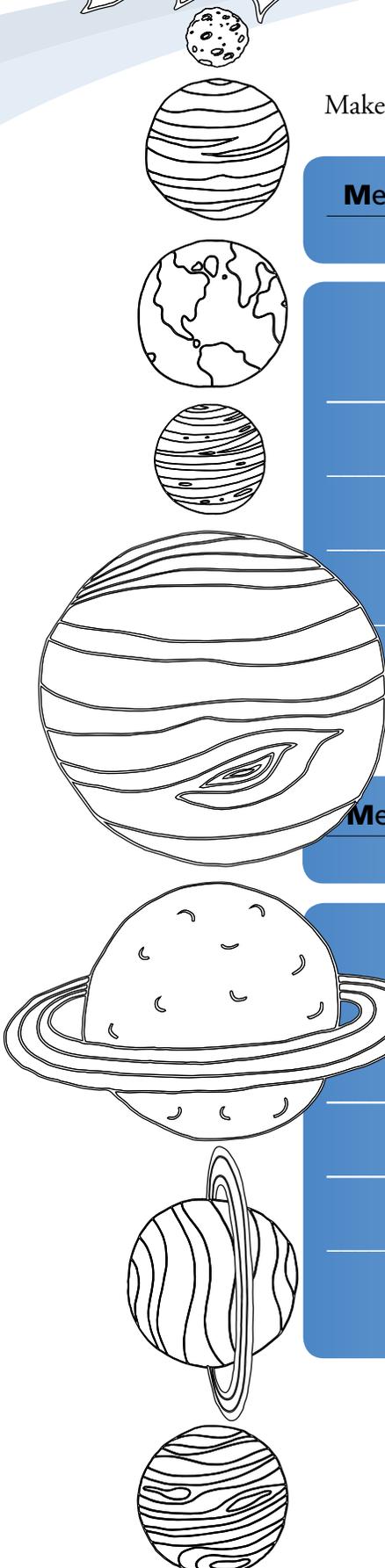
Handwriting practice area with 20 horizontal blue lines. A dotted line forms a large 'L' shape, starting from the top right and extending down to the bottom right, with a horizontal segment at the top and a vertical segment on the left.



# Activity 1.1

## Create Your Own Mnemonic

Make your own mnemonic to help you remember which order the planets come in.



<b>Mercury</b>	<b>Venus</b>	<b>Earth</b>	<b>Mars</b>	<b>Jupiter</b>	<b>Saturn</b>	<b>Uranus</b>	<b>Neptune</b>
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**Write your serious sentence here:**

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<b>Mercury</b>	<b>Venus</b>	<b>Earth</b>	<b>Mars</b>	<b>Jupiter</b>	<b>Saturn</b>	<b>Uranus</b>	<b>Neptune</b>
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**Write your silly sentence here:**

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# *what is astronomy* MATCHBOOK



## ASTRONOMY

**STEP 8:**  
Apply glue to the shaded area here  
and attach to the “Astronomy  
Minibooks” page.



### INSTRUCTIONS:

1. Remove minibook pages from your notebook.
2. Cut out the matchbook cover along the dotted lines. Do not cut the gold fold lines!
3. Fold along the gold lines so that the large Solar System flap and the small flap face outward in the same direction.
4. Cut out all eight squares on the following pages and fill in the information from Lesson 1.
5. Lift the large flap and place all the pages you created under the small flap.
6. With the large cover flap open and your eight pages under the small flap, staple your matchbook on the white line that crosses the center of the small flap. This will hold all your pages inside. Do not staple the cover closed!
7. Fold the large flap down and tuck it into the small flap, like a matchbook.
8. Glue onto your “Astronomy Matchbook” page.



# ARTIFICIAL SATELLITES



HUBBLE



GALILEO



NASA





**CONSTELLATIONS**



**STONEHENGE**



**NICHOLAS  
COPERNICUS**



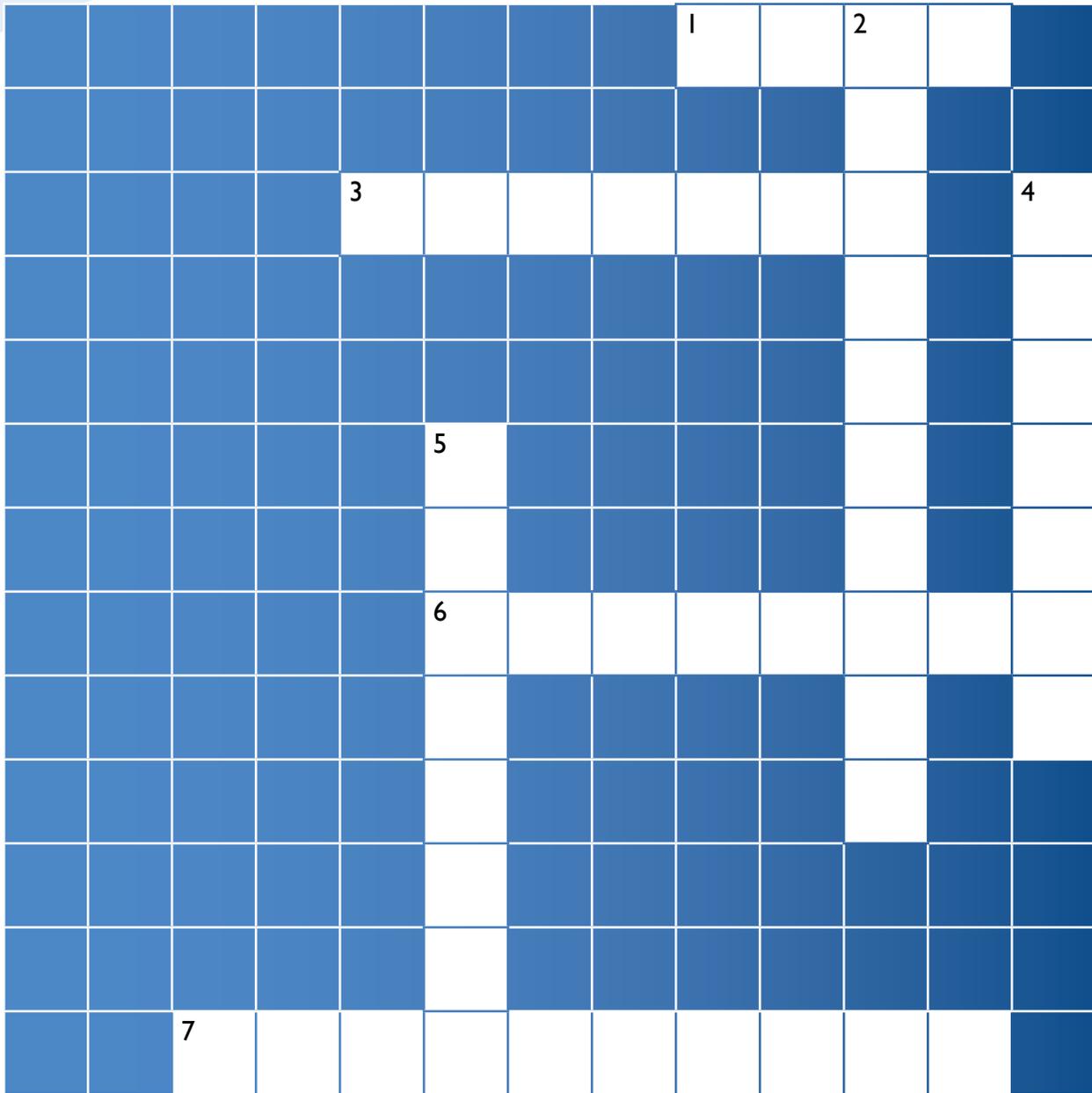
**NATURAL  
SATELLITE**



# *what is astronomy* **MATCHBOOK**

Attach your matchbook here.

# ASTRONOMY CROSSWORD



NASA  
GALILEO  
COPERNICUS  
INSTINCT  
UNIVERSE  
STONEHENGE  
GRAVITY

**ACROSS**

1. America's space agency, called the National Aeronautics and Space Administration.
3. A scientist who built telescopes and studied astronomy.
6. A special gift God gives to creatures, causing them to behave in a certain manner that is helpful to their survival, such as with birds flying south for the winter.
7. A scientist who discovered that the Earth revolves around the sun, rather than the sun revolving around the Earth, as was believed at the time.

**DOWN**

2. An ancient monument in England that may have been used to predict the arrival of spring and other seasons.
4. A physical force causing objects to pull on other objects, such as with the sun pulling on the Earth.
5. Everything that exists in space, including the Earth, planets, sun, and stars.





# Take It Further

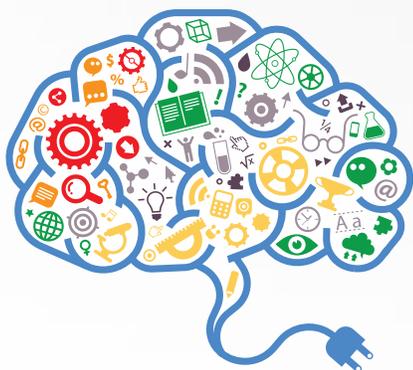
Fill this page with colorful drawings and lists of books you read about astronomy, movies you watched, and any additional experiments you performed.



# Take It Further

Make a scrapbook page of your journey so far.





# What Do You Remember?

Why did God create the stars and planets? \_\_\_\_\_

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What are the names of the planets? \_\_\_\_\_

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Do you remember the name of the astronomer who first said that Earth revolves around the sun? \_\_\_\_\_

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What is the name of the astronomer who learned how to study space with a telescope? \_\_\_\_\_

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What is the name of America's space agency and what does it do? \_\_\_\_\_

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