

# THE ASTRONOMY STUDENT NOTEBOOK

*An Astronomical Notebooking Adventure*



## ***The Astronomy Student Notebook***

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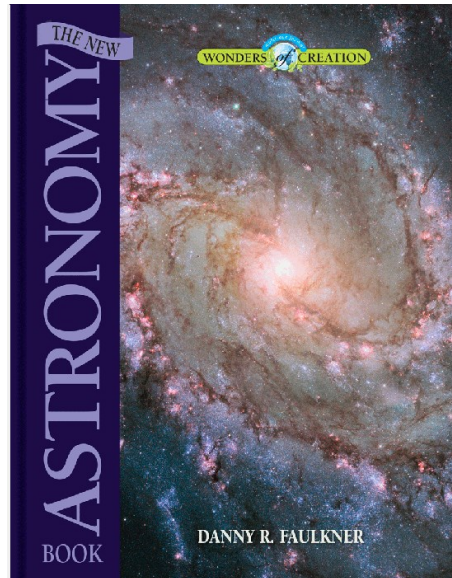
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## Acknowledgement



The universe is an amazing declaration of the glory and power of God! Beautiful and breathtaking in its scale, the vast expanse of the universe is one that we struggle to study, understand, or even comprehend in terms of its purpose and size. Now take an incredible look at the mysteries and marvels of space in *The New Astronomy Book*!

The Wonders of Creation series published by Master Books is a favorite among many homeschoolers. That is why, with the publisher's permission, we've created this student notebook that you can use along side the textbook. It's a great way to help your students go deeper in their understanding and retention of the material and provides room for notebooking, diagramming, and more.

# The Astronomy Student Notebook

Companion notebooks for all the titles in the Wonders of Creation series are available now!

## Books in this series include:

- *The Archaeology Book*
- *The New Astronomy Book*
- *The New Ocean Book*
- *The Fossil Book*
- *The Cave Book*
- *The Geology Book*
- *The Ecology Book*
- *The Mineral Book*
- *The New Weather Book*

Learn more at <https://www.masterbooks.com/wonders-of-creation-9-book-set> and find our companion notebooks at <https://dailyskillbuilding.com/product-category/master-books-wonders-of-creation-companion-notebook-series/>.



# The Astronomy Student Notebook

## Introduction: What Is Astronomy?

### Vocabulary

Your vocabulary words for this unit are below. Look up each word using the glossary at the back of *The New Astronomy Book* or the Internet, with a parent's permission.

astronomical

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astronomy

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astrophysics

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comet

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spectroscopy

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sun

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As you read the unit, write any words that you are not familiar with below. Look up their definitions and write them beside the words.

[illegible]

# The Astronomy Student Notebook

## What is Astronomy?

Read pages 6-7 of *The New Astronomy Book* and answer the questions with what you learn.

What would ancient people have considered to be stars? \_\_\_\_\_

What did they think comets were? \_\_\_\_\_

What was astronomy's function for much of history? \_\_\_\_\_

\_\_\_\_\_

How did the religion of astrology develop? \_\_\_\_\_

\_\_\_\_\_

Copy Romans 1:25 in your best handwriting.

*"because they exchanged the truth about God for a lie and worshiped and served the creature rather than the Creator, who is blessed forever! Amen." Romans 1:25*

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What invention revolutionized astronomy? \_\_\_\_\_

What program has played a key role in the great advancement of astronomy?  
What are some of the ways astronomy has advanced because of it?

\_\_\_\_\_

\_\_\_\_\_

Where did the word *comet* come from? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# The Astronomy Student Notebook

Illustrate how a pinhole camera works.



Why do the moon and sun appear to be about the same size? \_\_\_\_\_

\_\_\_\_\_

What shape is the moon's orbit? \_\_\_\_\_

What is an annular eclipse? \_\_\_\_\_

\_\_\_\_\_

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What are some ways our divisions of time are connected to astronomy?

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## The Astronomy Student Notebook

What is the heart of a comet? \_\_\_\_\_

What is this part made of? \_\_\_\_\_

What causes the coma to form? What makes it glow? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

What causes the comet's dust tail? Why does it always point away from the sun?

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What organization is responsible for the official names of stars, planets, and planetary objects?

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Why are comets fragile? What are the three loss mechanisms? How does their fragility support a young universe?

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How are satellites and planets different? \_\_\_\_\_

\_\_\_\_\_

How many satellites are in the solar system? What two are larger than Mercury?

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Copy Genesis 2:1 in your best handwriting.

*"Thus the heavens and the earth were finished, and all the host of them." Genesis 2:1*

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\_\_\_\_\_

# The Astronomy Student Notebook

## Two Kinds of Planets

Read pages 26-35 of *The New Astronomy Book* and answer the questions with what you learn.

Copy the table from page 27 below.

Planet	Distance from the sun (AU)	Mass	Diameter	Density	Rotation Period (days)	Number of Satellites	Rings
Mercury							
Venus							
Earth							
Mars							
Jupiter							
Saturn							
Uranus							
Neptune							

Which two planets have negative rotation periods? \_\_\_\_\_

\_\_\_\_\_

What does this mean? \_\_\_\_\_

\_\_\_\_\_

How do the orbits of Venus and Uranus refute the collision theory? \_\_\_\_\_

\_\_\_\_\_

What two groups can we put divide the planets into? What does the name of each group mean?

\_\_\_\_\_

\_\_\_\_\_

# The Astronomy Student Notebook

What are some of the differences between the two types of planets?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

What can density tell us about the possible composition of the planets?

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Why is Mercury a difficult planet to observe? \_\_\_\_\_

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Why is Venus sometimes called Earth's twin? \_\_\_\_\_

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Why did people once think there might be life on Venus? \_\_\_\_\_

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What are the clouds on Venus made of? \_\_\_\_\_

Explain the greenhouse effect on Venus and the affect it has on the planet's surface temperature.

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# The Astronomy Student Notebook

## astronomical

Introduction: What Is Astronomy?

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## astronomy

Introduction: What Is Astronomy?

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## astrophysics

Introduction: What Is Astronomy?

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## comet

Introduction: What Is Astronomy?

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# The Astronomy Student Notebook

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Unit 3: The Solar System

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**ellipse**

Unit 3: The Solar System

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**minor planets**

Unit 3: The Solar System

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**nucleus**

Unit 3: The Solar System

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