# Astronomy

Review and

Reinforce

# Chapter 3 The Solar System

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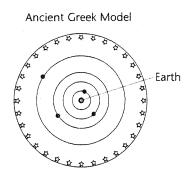
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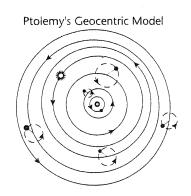
# **Observing the Solar System**

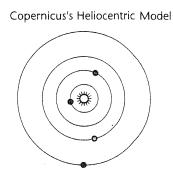
#### **Understanding Main Ideas**

Answer the following questions in the spaces provided.









What is the main difference between the geocentric and heliocentric models of planetary motion?

 How did the Greek model and Ptolemy's model differ?

 How did Galileo's observations of Jupiter and Venus support Copernicus's model?

#### **Building Vocabulary**

Fill in each blank to complete each statement.

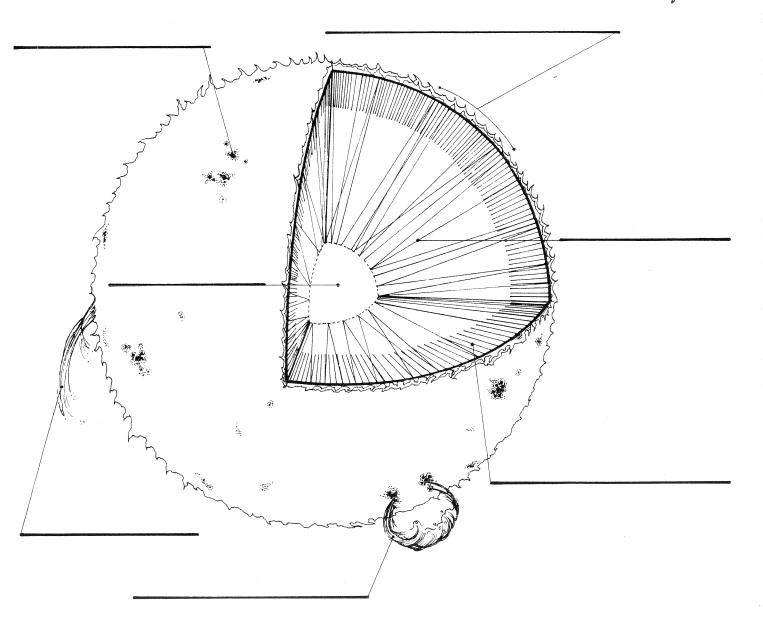
- **4.** The sun-centered system of planets developed by Copernicus is an example of a(n) \_\_\_\_\_ model.
- **5.** Kepler discovered that the orbit of each planet is a(n) \_\_\_\_\_\_, rather than a perfect circle.
- **6.** An Earth-centered system of planets is known as a(n) model.

# Our Closest Star-The Sun

Name\_\_\_\_\_

The sun is the closest star to the Earth. Use the **WORD BANK** to label the different yers and features of the sun.

78-82



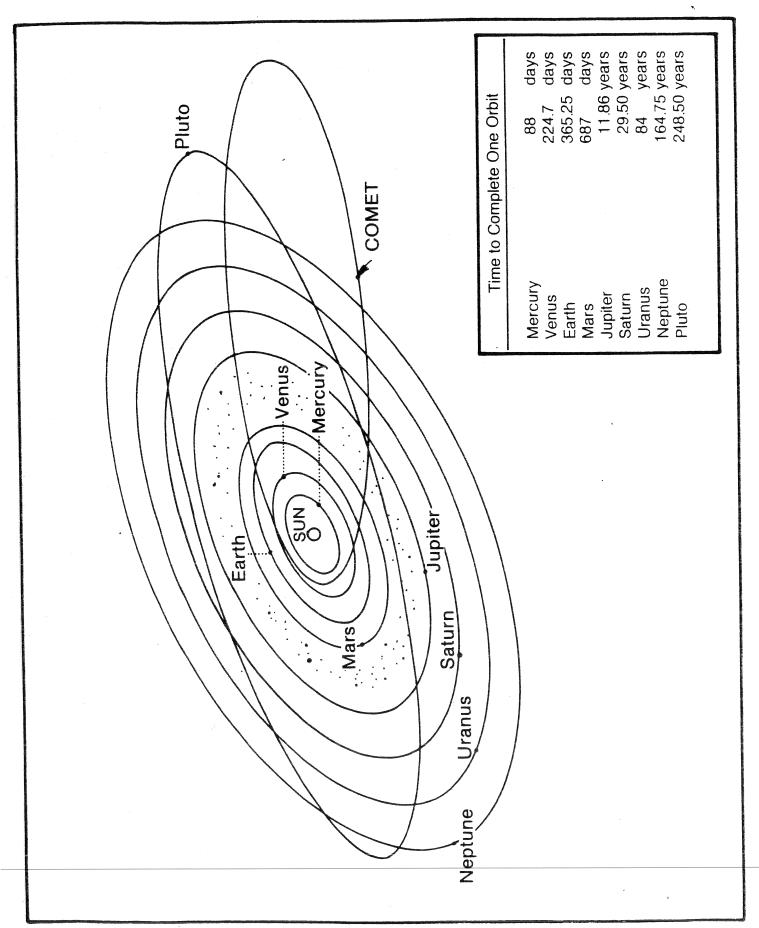
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٧N	$^{\prime}$	K	U	D	М	J N	N	

core	
photosphere	
flare	

radiative zone chromosphere sunspot

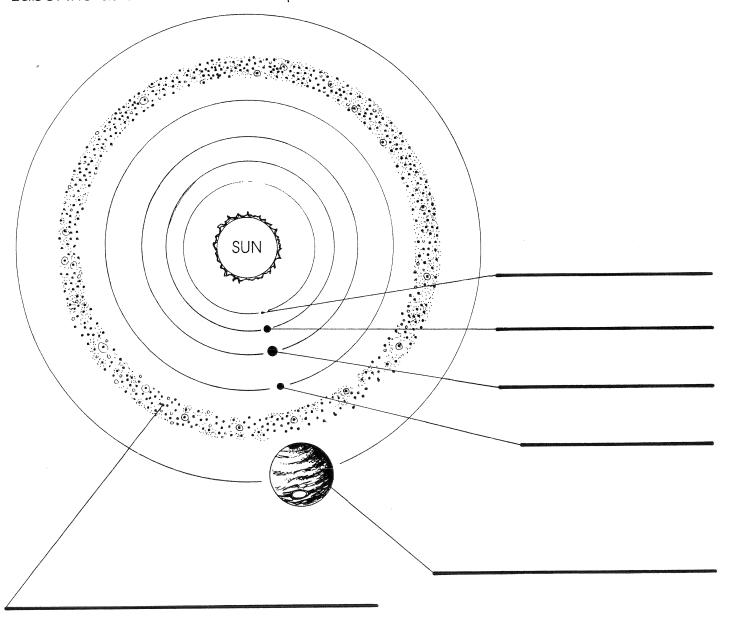
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# **ORBITS**



# The Asteroid Belt

Scientists believe that asteroids may be pieces of a planet that was torn apart nillions of years ago. Thousands of large asteroids have been tracked, but hundreds of thousands of smaller asteroids are in the asteroid belt. Label the asteroid belt and the planets in the illustration below.



WORD	<b>BANK</b>
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Mercury	Venus	Earth
Mars	Jupiter	asteroid belt

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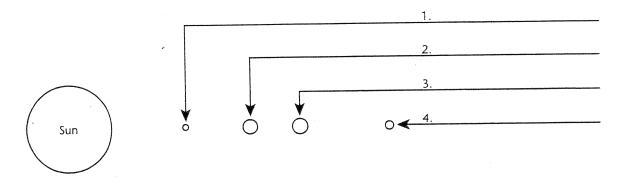
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#### The Inner Planets

#### **Understanding Main Ideas**

Label the diagram with the names of the inner planets.





Write the inner planet or planets that the statement describes.

5.	nas a
6.	70 pe
7.	rotate

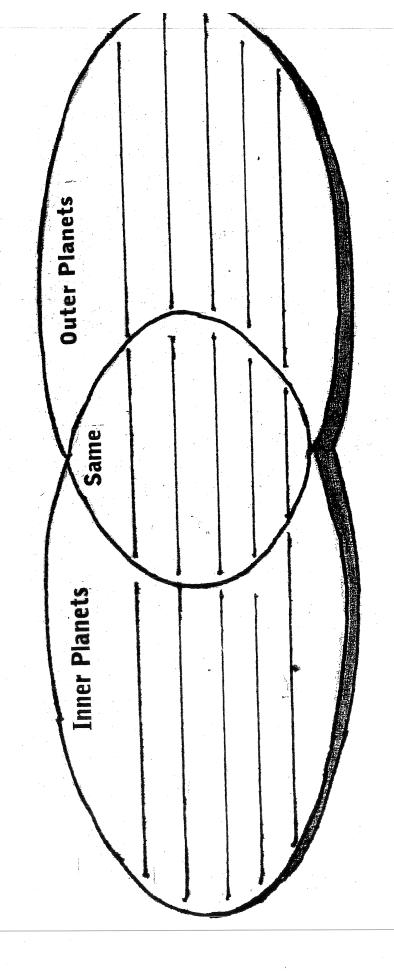
- 5. has a rocky surface
- **6.** 70 percent is covered with water
- 7. rotates in the opposite direction from most other planets and moons
- 8. called the "red planet" because of the color of the dust
- 9. has at least one moon
- **10.** similar to each other in size, density, and internal structure
- 11. has almost no atmosphere
- **12.** atmosphere is so heavy and thick that it would crush a human
- 13. has a tilted axis that causes seasons
- **14.** atmosphere has low air pressure and is mostly carbon dioxide

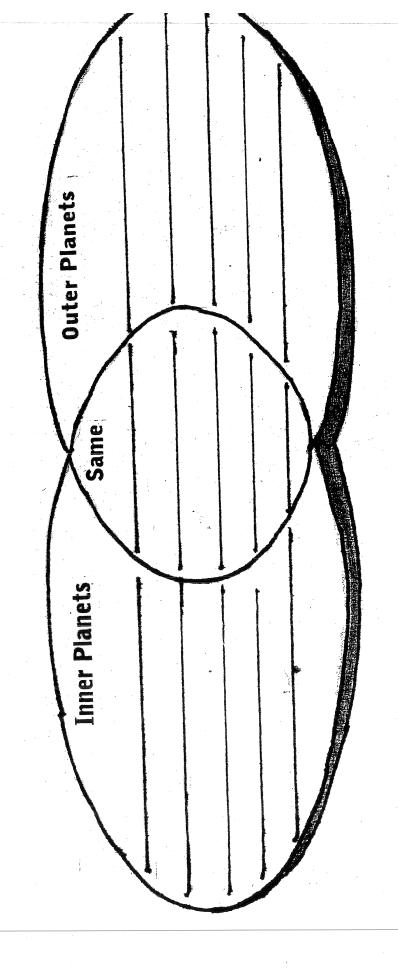
#### **Building Vocabulary**

Write a definition for each of the following terms.

15.	terrestrial pla	anets			
		cc .			

16.	greenhouse effect	

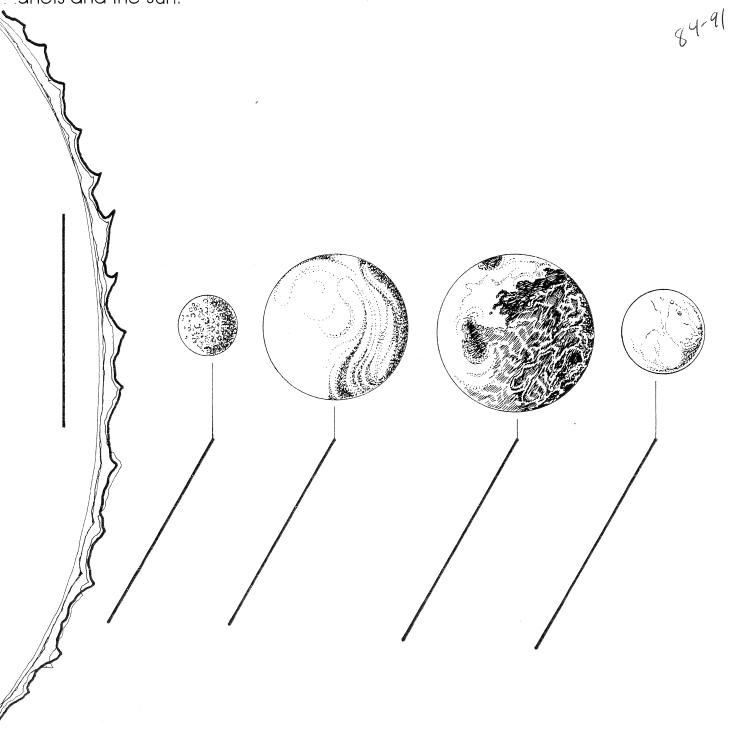




# The Inner Planets

Name\_\_\_\_\_

The planets that are closest to the sun are called the Inner Planets. Label the Inner anets and the sun.



### WORD BANK

sun	Venus	Mercury
Earth	Mars	·

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The Outer Plan	ets	P. 94-101
<b>Understanding Main Id</b> Answer the following question		
1. What are the five outer	planets?	
2. Which planets are the g	as giants?	
3. What are the two main	differences between Pluto and	
4. Why doesn't the gas on Mercury?	a gas giant escape into space,	as it has on
	r system has a composition sim	
	ne most massive of all the plane	
7. What are Saturn's rings	s made of?	
8. How did astronomers	know where to look to discove	r Neptune?
9. Why do astronomers so be a double planet?	ometimes consider Pluto and it	s moon, Charon, to
Building Vocabulary		
10. Define gas giant.		
11. What is a <i>ring</i> ?		

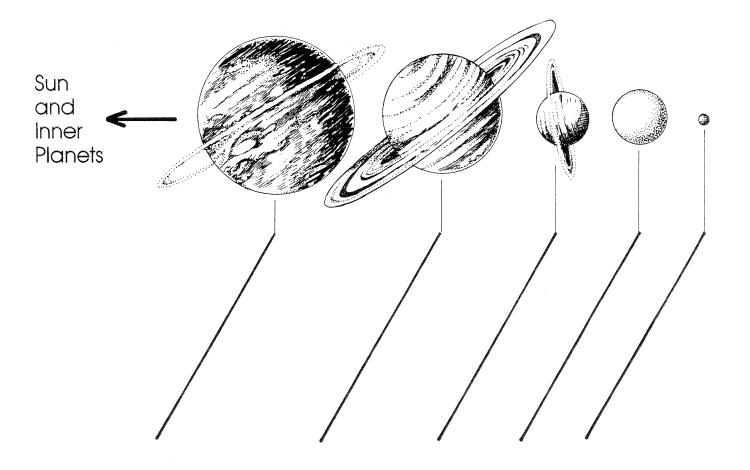


# The Outer Planets

Name\_\_\_\_\_

The planets that are farthest from the sun are called the Outer Planets. Label the Outer Planets.

94.101



## WORD BANK

Jupiter	Saturn	Uranus
Neptune	Pluto	

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# **Comets, Asteroids, and Meteors**

#### **Understanding Main Ideas**

Complete the following table.

Object	Description	Location/Movement
Asteroid		
Comet		
Meteoroid		

Answer questions 1 through 3 on a separate sheet of paper.

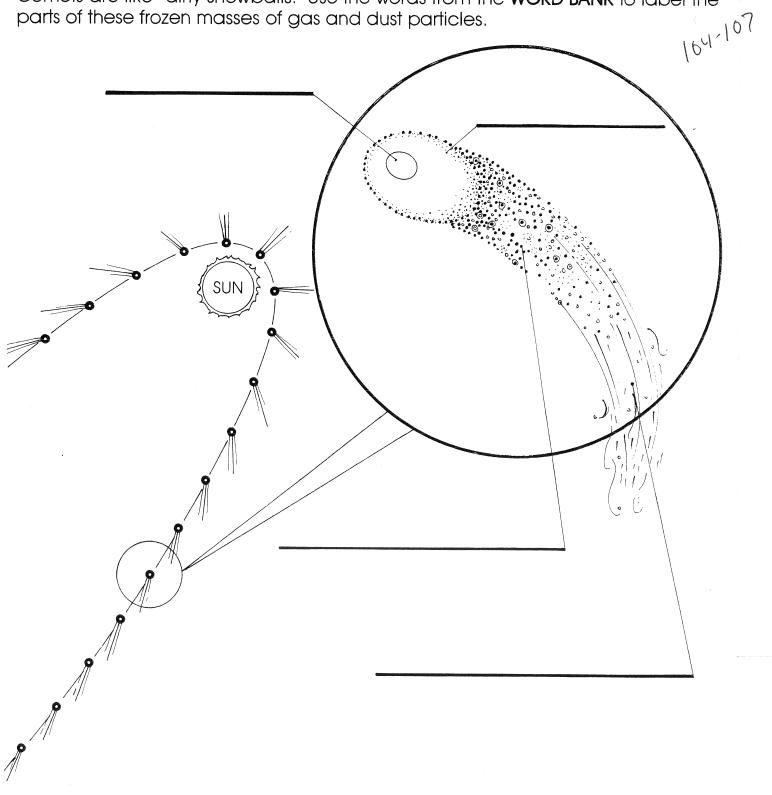
- 1. Explain what causes a meteoroid to become a meteorite.
- 2. Describe these parts of a comet: head, nucleus, coma, tail.
- 3. How can you tell a meteor from a comet?

#### ilding Vocabulany

Building vocab	ulary	
From the list below,	choose the term that be	st completes each sentence.
asteroid	comet	meteoroid
asteroid belt	Kuiper belt	meteorite
coma	meteor	Oort cloud
		mosphere, friction causes it to burn led a(n)
	e and dust whose orbi	t is usually a long, narrow ellipse is
6. If a meteoroid	hits Earth's surface, i	t is called a(n)
	•	
	t that revolves around planet, is a(n)	l the sun, but is too small to be
8. A chunk of ro asteroid is cal	ck or dust in space that led a(n)	at usually comes from a comet or an
	the solar system betw	veen the orbits of Mars and Jupiter is
10. Clouds of gas	and dust on a comet	form a fuzzy outer layer called a
11. A spherical re	gion of comets is the	•
		ets that begins near Neptune's orbit is



Comets are like "dirty snowballs." Use the words from the WORD BANK to label the parts of these frozen masses of gas and dust particles.



WORD BANK

nucleus gas tail dust tail coma

