Astronomy

Chapter 3

Text Book

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The Solar System • Review and Reinforce

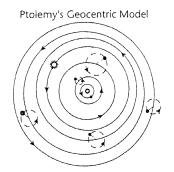
Observing the Solar System

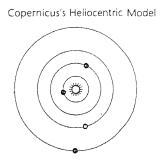
Understanding Main Ideas

Answer the following questions in the spaces provided.



Ancient Greek Model





1.	What is the main difference between the geocentric and heliocentric models of planetary motion?
2.	How did the Greek model and Ptolemy's model differ?
_	
3.	How did Galileo's observations of Jupiter and Venus support Copernicus's model?

Building Vocabulary

Fill in each blank to complete each statement.

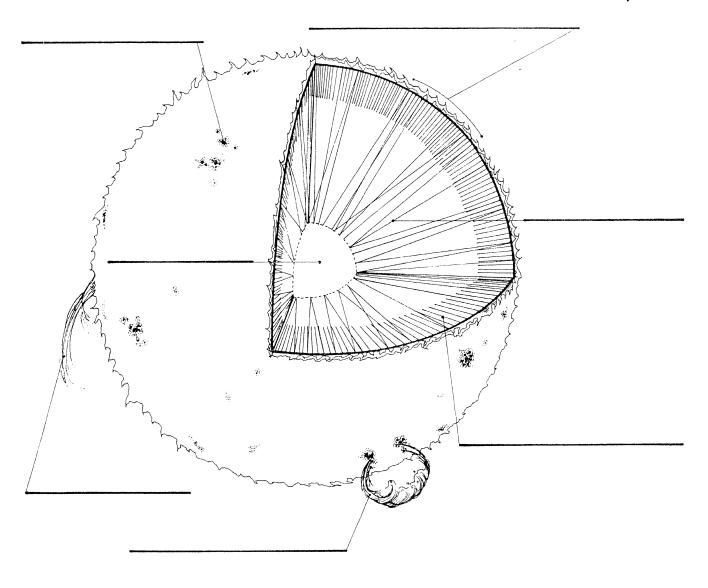
- **4.** The sun-centered system of planets developed by Copernicus is an example of a(n) _____ model.
- 5. Kepler discovered that the orbit of each planet is a(n) ______, rather than a perfect circle.
- 6. An Earth-centered system of planets is known as a(n)

Our Closest Star-The Sun

Name_____

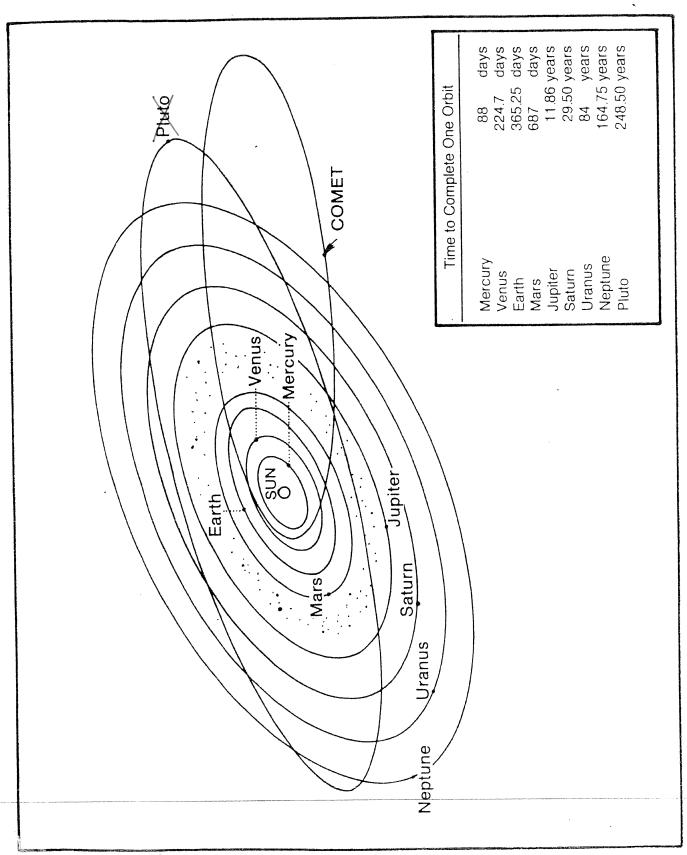
The sun is the closest star to the Earth. Use the WORD BANK to label the different yers and features of the sun.

78-82



WORD BANK

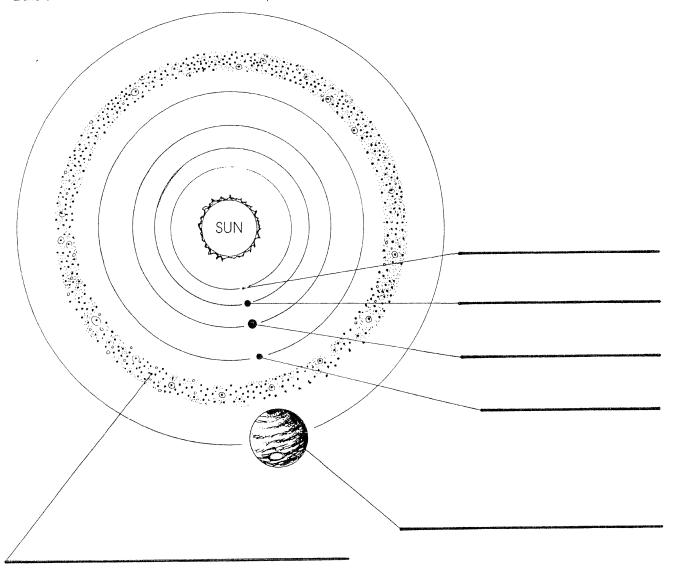
core photosphere flare	radiative zone chromosphere sunspot	prominence	
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The	Aste	eroic	d Belt
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Name_____

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.



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	Mercury	Venus	Earth
	Mars	Jupiter	asteroid belt

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Name	Date		

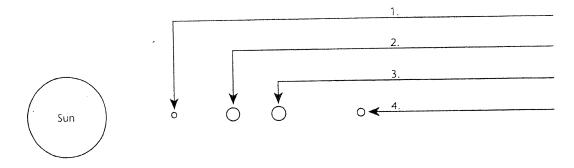
The Solar System • Review and Reinforce

The Inner Planets

Understanding Main Ideas

Label the diagram with the names of the inner planets.





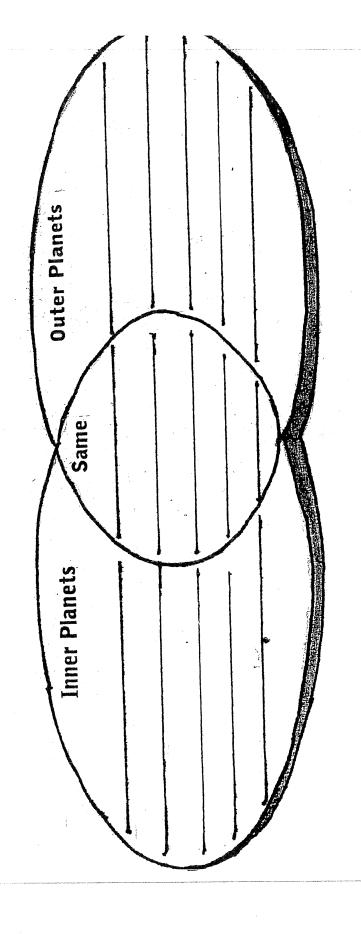
Write the inner planet or planets that the statement describes.

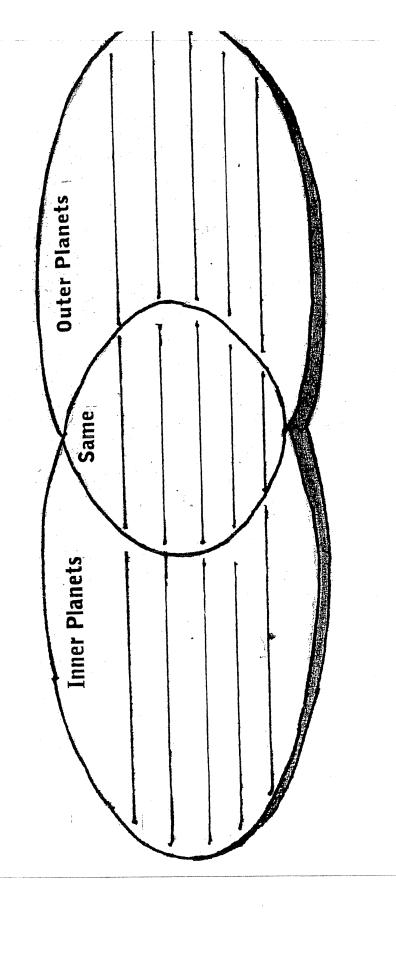
- 5. has a rocky surface
- 6. 70 percent is covered with water
- 7. rotates in the opposite direction from most other planets and moons
- 8. called the "red planet" because of the color of the dust
- 9. has at least one moon
- 10. similar to each other in size, density, and internal structure
- 11. has 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 planets
- 16. greenhouse effect

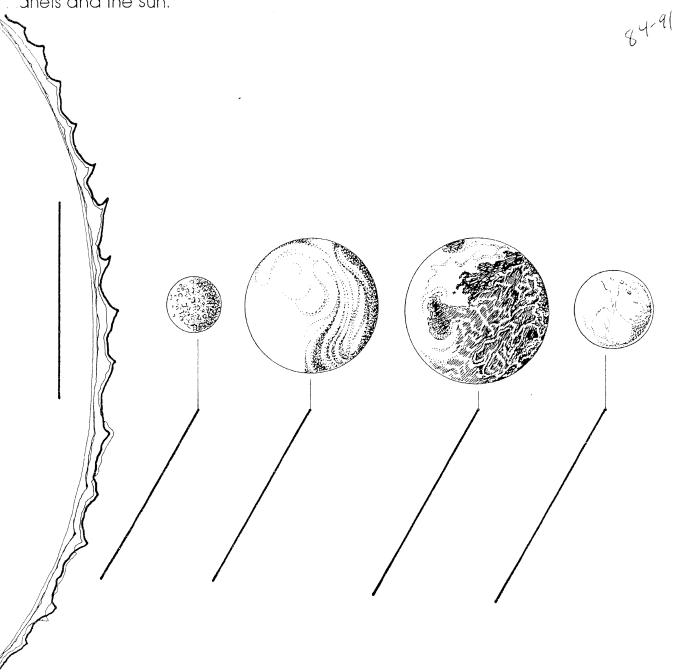




The Inner Planets

Name_____

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



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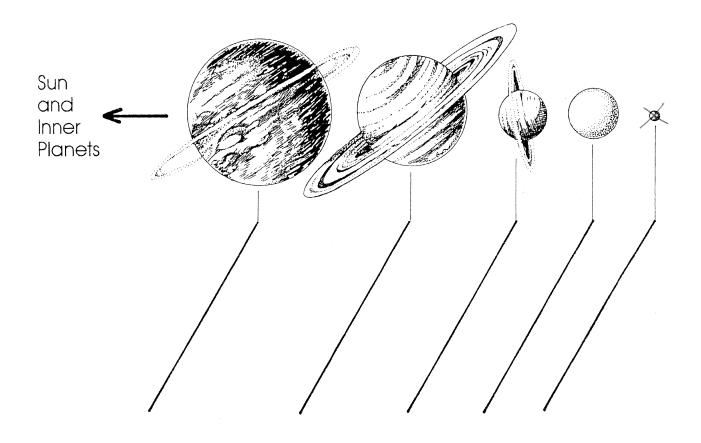
sun Venus Mercury Earth Mars

The Outer Planets

Name_____

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

94.101



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Jupiter Saturn Uranus Neptune Pluto

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he Outer Pla	nets	P. 94-101
nderstanding Main nswer the following ques	Ideas stion in the spaces provided.	
. What are the five out	•	
Which planets are the	e gas giants?	
3. What are the two ma	in differences between Pluto an	nd the gas giants?
4. Why doesn't the gas Mercury?	on a gas giant escape into space	
gas giants?	plar system has a composition si	imilar to that of the
around the sun?		
	ngs made of?rs know where to look to discov	
9. Why do astronomers be a double planet?	s sometimes consider Pluto and	its moon, Charon, to
Building Vocabulary		
10. Define gas giant.		



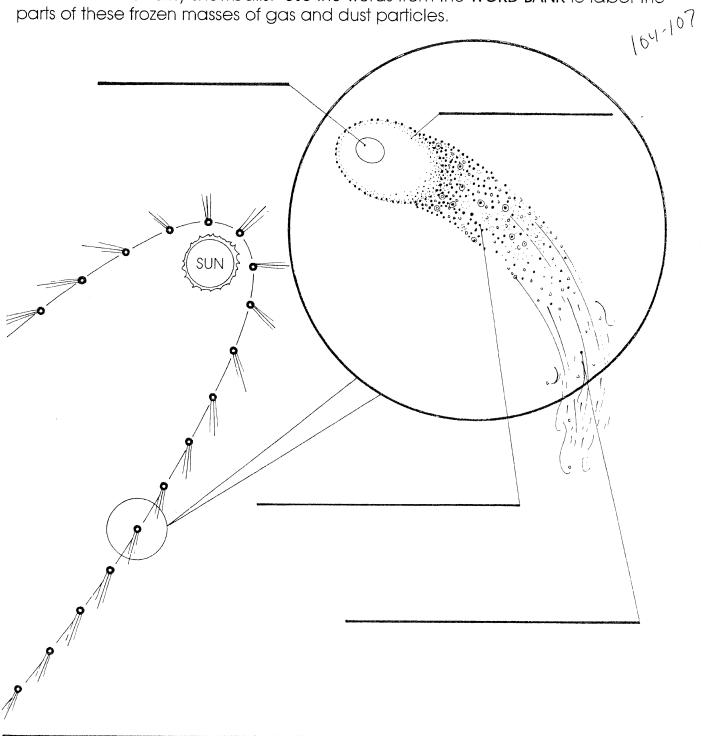
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The Solar Sys	tem • Review and Re	inforce		
Comets	, Asteroids, an	d Meteors	¥	104-167
Understand i Complete the fo	ing Main Ideas llowing table.			104/181
Object	Description	Location/Mo	vement	
Asteroid				
Comet				
Meteoroid				
Answer auestic	ons 1 through 3 on a separa	te sheet of paper.		
How can yBuilding Vo	nese parts of a comet: head ou tell a meteor from a c cabulary elow, choose the term that b comet	omet?		
asteroid asteroid belt		meteorite		
coma	meteor	Oort cloud		É
up and pr	neteoroid enters Earth's a coduce a streak of light ca of ice and dust whose orb	alled a(n)		
()	roid hits Earth's surface,	it is called a(n)		
considere	bject that revolves around a planet, is a(n)			
8. A chunk of asteroid is	of rock or dust in space to s called a(n)	nat usually comes fron 		•
9. The regio known as	n of the solar system bet the	ween the orbits of Mar		
10. Clouds of	gas and dust on a come	t form a fuzzy outer la	yer called a	

11. A spherical region of comets is the _____

12. A doughnut-shaped region of comets 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