Astronomy

Chapter 3

Text Book

Packet

Name

Homeroom #

2014

Date_

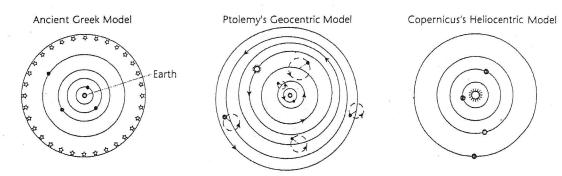
The Solar System • Review and Reinforce

Observing the Solar System

Understanding Main Ideas

Answer the following questions in the spaces provided.





- **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.

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)

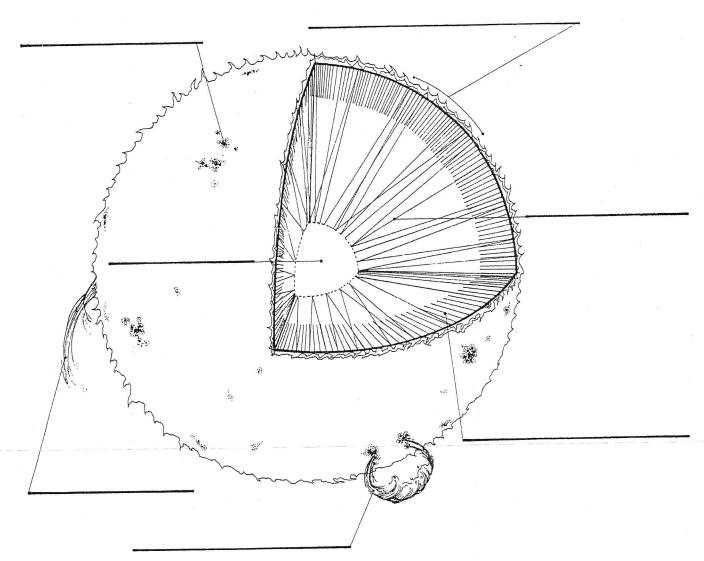
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Our Closest Star-The Sun

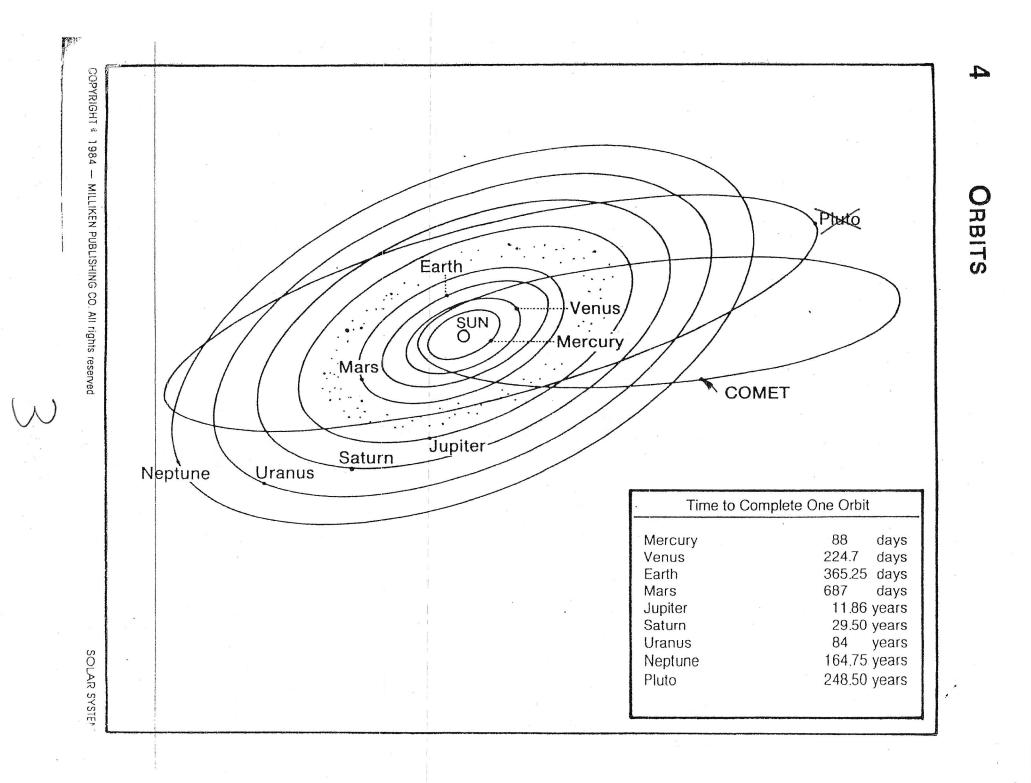
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The sun is the closest star to the Earth. Use the WORD BANK to label the different yers and features of the sun.

78-82

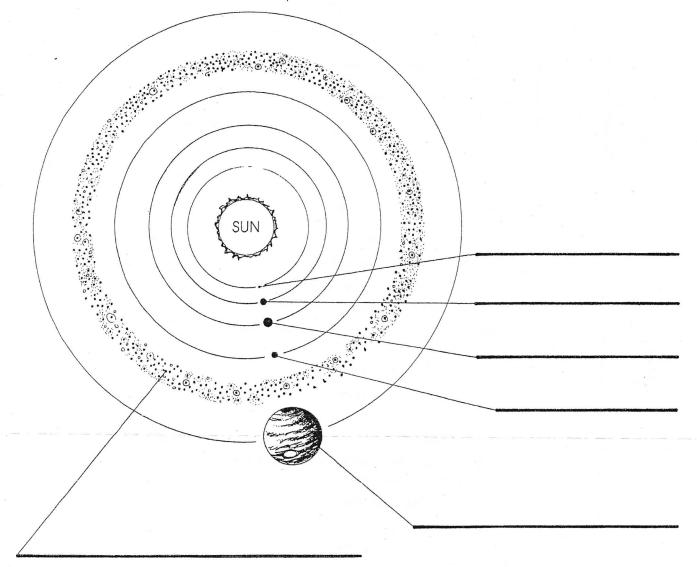


		WORD BANK	
	core photosphere flare	radiative zone chromosphere sunspot	prominence
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The Asteroid Belt

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 BANK Mercury Venus Earth Mars Jupiter asteroid belt Earth Science IF8755 © 1991 Instructional Fair, Inc.

Date.

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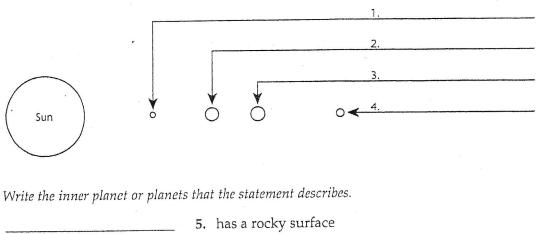
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The Inner Planets

Understanding Main Ideas

Label the diagram with the names of the inner planets.



	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

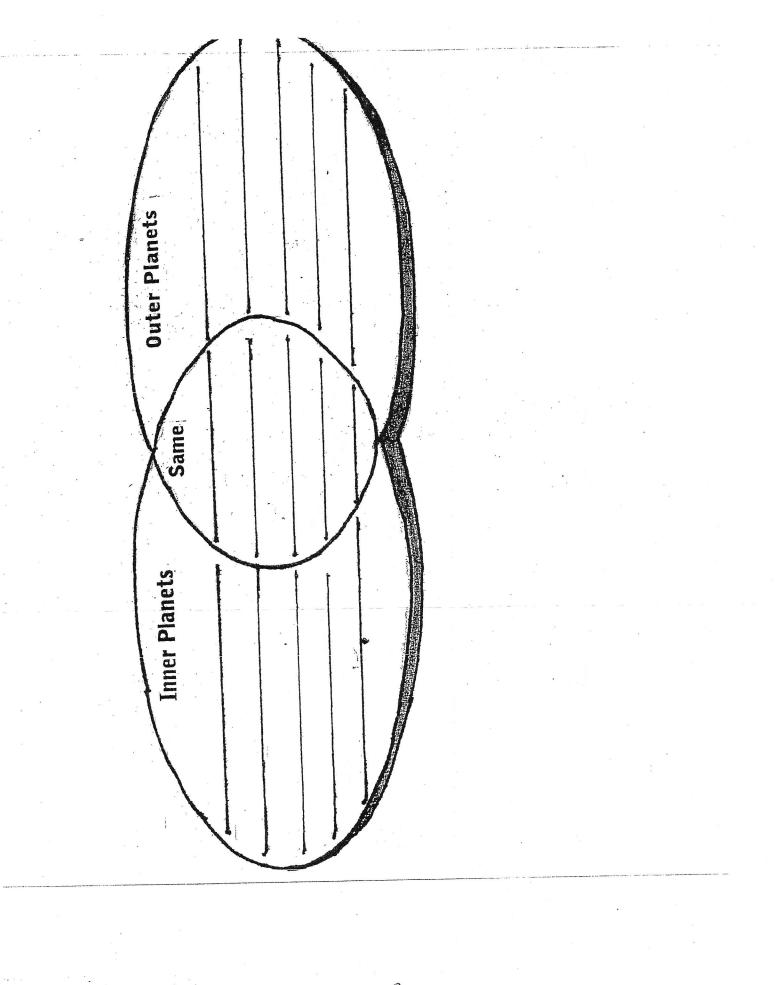
Building Vocabulary

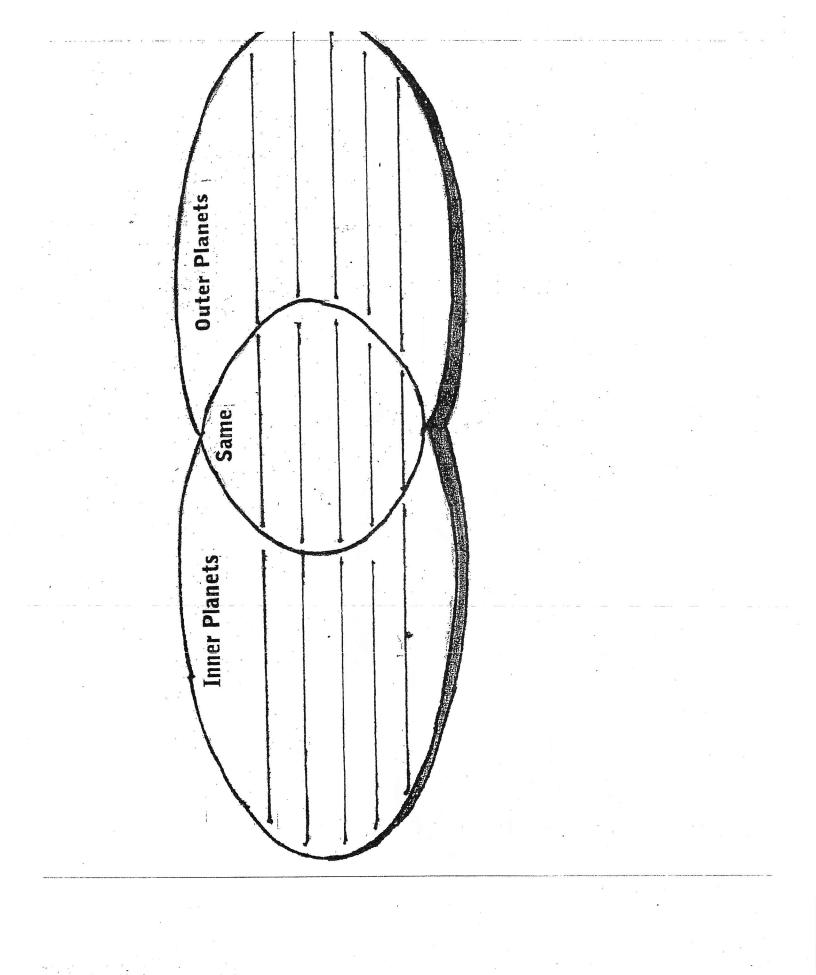
Write a definition for each of the following terms.

15. terrestrial planets

16. greenhouse effect

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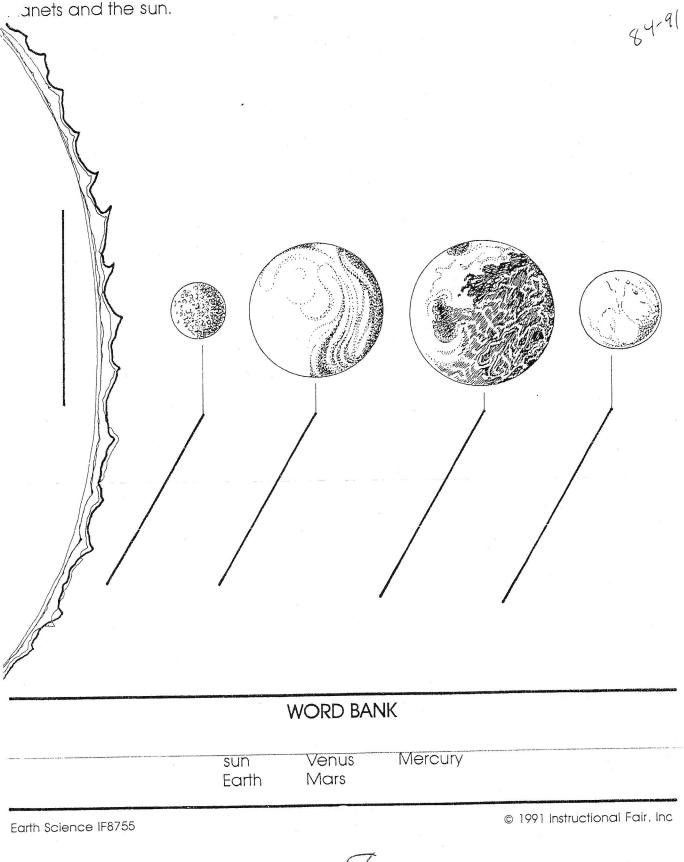




The Inner Planets

Name_

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



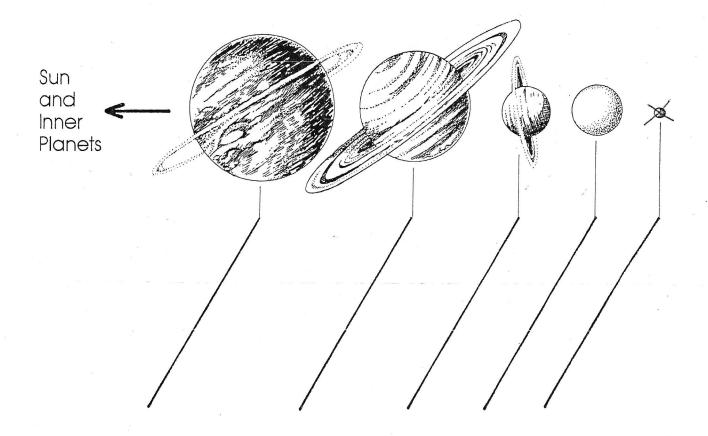
The Outer Planets

٤.

Name.

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

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	W	ORD BANK		
	Jupiter Neptune	Saturn Pluto	Uranus	
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The Outer Pla	inets	P. 99- 10
Understanding Main Answer the following ques	Ideas stion in the spaces provided.	an a
1. What are the five out	er planets?	
2. Which planets are the	e gas giants?	
3. What are the two ma	in differences between Pluto and t	he gas giants?
4. Why doesn't the gas Mercury?	on a gas giant escape into space, a	s it has on
,	lar system has a composition simil	
	the most massive of all the planet	
7. What are Saturn's rir	igs made of?	· .
8. How did astronomer	s know where to look to discover	Neptune?
9. Why do astronomers	sometimes consider Pluto and its :	moon, Charon, to
be a double planet?		
Building Vocabulary		
10. Define gas giant.		
11. What is a <i>ring</i> ?		

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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?

Building Vocabulary

From the list below, cl	noose the term that best c	ompletes each sentence.
asteroid	comet	meteoroid
asteroid belt	Kuiper belt	meteorite
coma	meteor	Oort cloud

- 4. When a meteoroid enters Earth's atmosphere, friction causes it to burn up and produce a streak of light called a(n) ______
- 5. A chunk of ice and dust whose orbit is usually a long, narrow ellipse is a(n) ______.

6. If a meteoroid hits Earth's surface, it is called a(n)

- 7. A rocky object that revolves around the sun, but is too small to be considered a planet, is a(n) ______.
- A chunk of rock or dust in space that usually comes from a comet or an asteroid is called a(n) _____.
- 9. The region of the solar system between the orbits of Mars and Jupiter is known as the ______.
- 10. Clouds of gas and dust on a comet form a fuzzy outer layer called a

11. A spherical region of comets is the _____

the

12. A doughnut-shaped region of comets that begins near Neptune's orbit is

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Dirty Snowballs

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.

Name_

