

The Solar System



What kinds of objects are in the solar system?

Before You Read

Before you read the chapter, think about what you know about the solar system. Record your thoughts in the first column. Pair with a partner, and discuss his or her thoughts. Write those thoughts in the second column. Record what you and your partner would like to share with the class in the third column.

Think	Pair	Share

Chapter

Lesson 1	Lesson 2	Lesson 3	Lesson 4
<p>NEW asteroid comet astronomical unit period of revolution period of rotation</p> <p>REVIEW orbit</p>	<p>NEW terrestrial planet greenhouse effect</p>	<p>NEW Galilean moons</p>	<p>NEW meteoroid meteor meteorite impact crater</p>

Lesson 1 The Structure of the Solar System

Skim Lesson 1 in your book. Read the headings and look at the photos and illustrations. Identify three things you want to learn more about as you read the lesson. Record your ideas in your Science Journal.

Main Idea

What is the solar system?

I found this on page _____.

Objects in the Solar System

I found this on page _____.

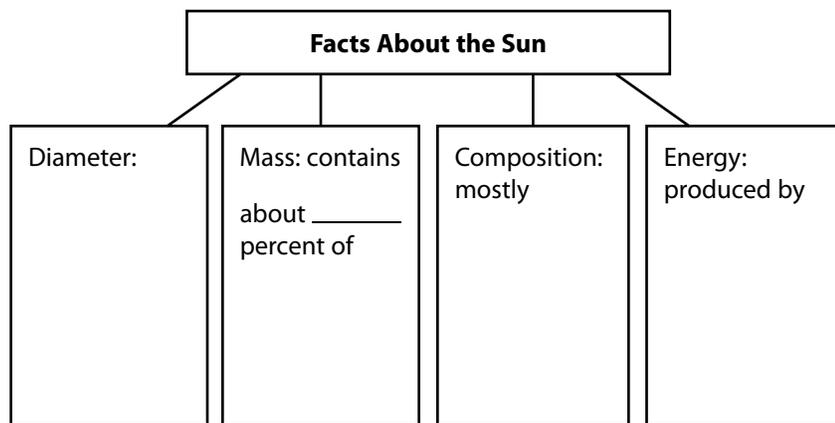
I found this on page _____.

I found this on page _____.

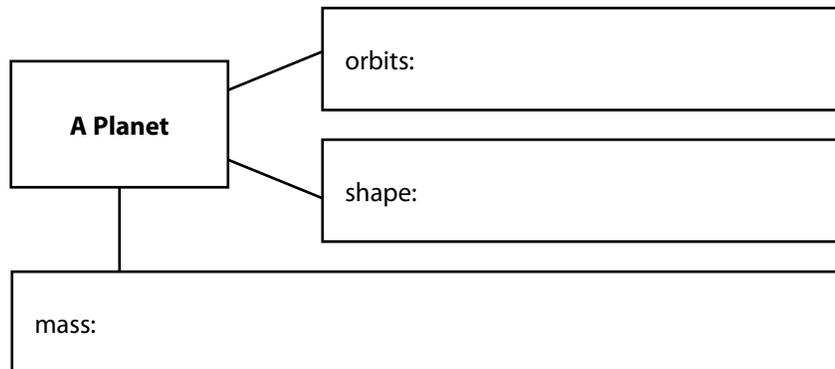
Details

Describe the solar system.

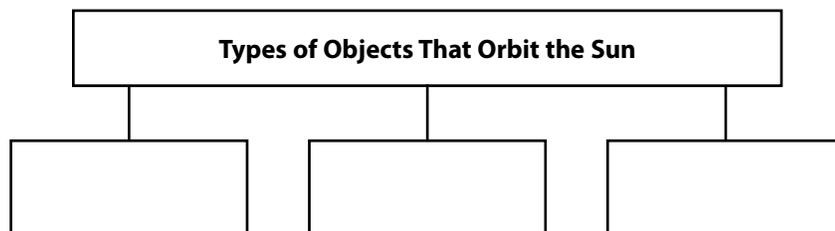
Organize facts about the Sun in this graphic organizer.



Explain how an object is classified as a planet.



Identify objects that orbit the Sun.



Lesson 1 | The Structure of the Solar System (continued)

Main Idea

I found this on page _____.

I found this on page _____.

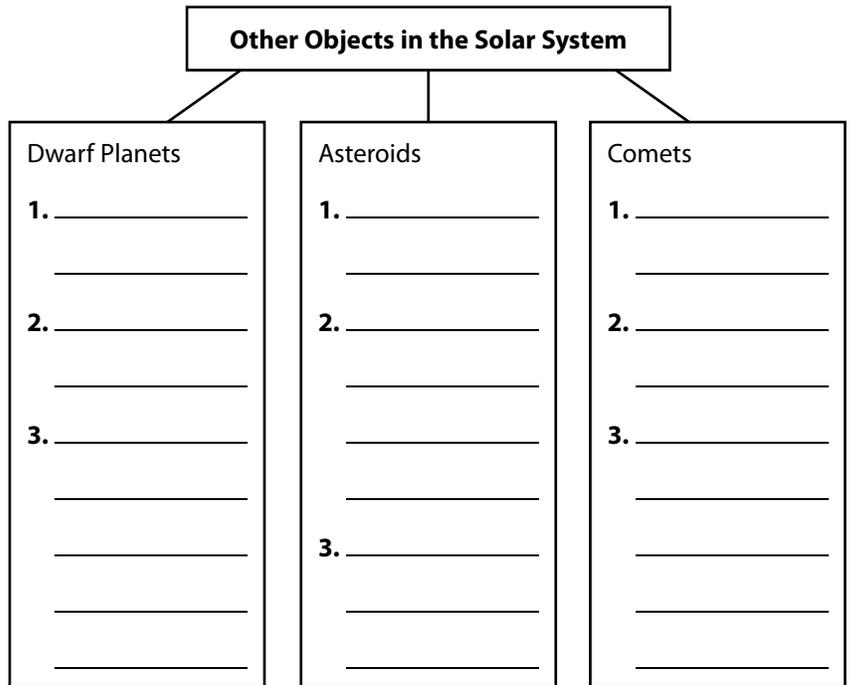
I found this on page _____.

Details

 **Contrast** the inner and outer planets by completing the table.

	Inner	Outer
Relative distance to the Sun		
Composition		
Relative size		
Names of the planets		

Outline information about dwarf planets, asteroids, and comets. Write three facts about each type of object.



Identify the names of four dwarf planets.

1. _____
2. _____
3. _____
4. _____

Lesson 1 | The Structure of the Solar System (continued)

Main Idea

I found this on page _____.

The Motion of the Planets

I found this on page _____.

I found this on page _____.

Details

 **Organize** information about astronomical units.

Definition: _____

Length: _____

Used because: _____

 **Organize** information about the motion of the planets by completing the chart.

Motion of the Planets	
Rotation	Revolution
The time that a planet takes to _____ _____.	The time that a planet takes to _____ _____.
Also called: _____	Also called: _____ Shape: _____

Identify the relationship between a planet's speed and its distance from the Sun by circling the correct speed.

Distance from the Sun	Speed	
Closer to the Sun	faster	slower
Farther from the Sun	faster	slower

 **Analyze It** Do Mercury and Venus travel through space faster than Earth? Are Mercury and Venus less than or greater than one AU from the Sun? Explain both answers.
