Class_____

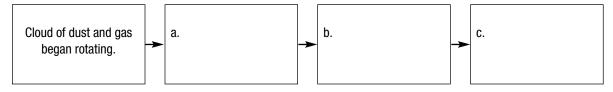
Chapter 23 Touring Our Solar System

Section 23.1 The Solar System

This section gives an overview of the planets of the solar system and describes the nebular theory of the formation of the solar system.

Reading Strategy

Complete the flowchart on the formation of the solar system. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.



- 1. Almost all of the mass of the solar system is within the
- **2.** Is the following sentence true or false? The farther a planet is from the sun, the shorter its period of revolution. _____
- **3.** List the planets whose orbital planes lie more than 3 degrees from the plane of the sun's equator. _____

The Planets: An Overview

4. C List the main differences between the terrestrial and Jovian planets.

a. _____ b. _____ c. _____ d. _____

- **5.** Indicate whether each of the following planets is a terrestrial planet, a Jovian planet, or neither.
 - a. Saturn _____
 - b. Venus _____
 - c. Pluto _____
 - d. Mercury _____
 - e. Uranus _____
 - f. Mars _____
 - g. Neptune _____
 - h. Jupiter _____
- 6. The ______ planets are relatively small and rocky.
- **7.** Is the following sentence true or false? The Jovian planets are huge, rocky giants. _____
- 8. List the groups of substances that make up the planets. _____

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- **9.** Give two reasons why the Jovian planets have much thicker atmospheres than the terrestrial planets.
- **10.** To escape from a planet's gravity, an object must reach a speed called the ______.
- **11.** Complete the table below.

Terrestrial Planets	Jovian Planets
	Terrestrial Planets

Formation of the Solar System

- **12.** A(n) ______ is a cloud of dust and gas in space.
- **13.** Describe the nebular theory of the formation of the solar system.

14. Circle the letter of the term for small, irregularly shaped bodies.

- a. planet
- b. grain
- c. ice
- d. planetesimal
- **15.** Is the following sentence true or false? The inner planets formed mainly from metals and silicate minerals because of the high temperatures near the sun. _____
- **16.** The Jovian planets contain large quantities of ices because it was ______ enough in the outer solar system for ices to

form.