

Exploring Space ▪ *Reading/Notetaking Guide***Exploring Space Today** (pp. 515–519)

This section explains the roles of space shuttles, space stations, and space probes.

Use Target Reading Skills

As you read about exploring space today, complete the outline to show the relationships among the headings.

Exploring Space Today
I. Working in space
A. Space shuttles
B.
II. Space probes
A.
B.

Working in Space (pp. 516–517)

1. What is a space shuttle?

2. List three tasks that space shuttles perform.

a. _____

b. _____

c. _____

3. A large artificial satellite in which people can live for long periods is called a(n) _____.

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4. Circle the letter of each statement that is true about space stations.
- The main power source of the International Space Station is solar cells.
 - The International Space Station was completed in 1998.
 - A space station is a large artificial satellite on which people can live and work for long periods.
 - The Soviet space station *Mir* is currently orbiting Earth.

Space Probes (pp. 518–519)

Match the space probe with the primary planet(s) or moon(s) that it explored.

Space Probe	Planet or Moon
_____ 5. <i>Galileo</i>	a. Mars
_____ 6. <i>Lunar Prospector</i>	b. Saturn and Titan
_____ 7. <i>Opportunity</i>	c. Jupiter and its moons
_____ 8. <i>Cassini</i>	d. Earth's moon

9. Complete the table to compare and contrast space shuttles, space stations, and space probes.

Feature	Spacecraft		
	Space Shuttle	Space Station	Space Probe
Carry/Support Humans	Yes	a.	b.
Purpose	Transport people and equipment	c.	d.
Source of Power	e.	f.	Onboard system to produce electricity

- g. Which type of spacecraft is best suited to explore planets that have very different conditions from those of Earth? Why?

- h. The International Space Station operates by a renewable energy source—one that will not run out. Why is this important?
