

Chapter Test B

Exploring Space

Multiple Choice

Directions: *On the line before each question or statement, write the letter of the correct answer.*

- _____ 1. What part of the electromagnetic spectrum does a reflecting telescope use to produce an image?
- A. X-rays
 - B. microwaves
 - C. visible light
 - D. gamma rays
- _____ 2. What must be true of a satellite?
- A. It must be small.
 - B. It must carry oxygen.
 - C. It must transport people in space.
 - D. It must orbit an object larger than itself.
- _____ 3. Scientists think Mars might support life because of the presence of
- A. water.
 - B. oxygen.
 - C. sunlight.
 - D. nitrogen.

Completion

Directions: *On each line, write the term from the word bank that correctly completes each sentence. Not all terms are used.*

flyby	orthodontic braces	radio wave	reflecting telescope
refracting telescope	rocket	rover	space probe
space shuttle	X-ray		

4. A(n) _____ is an uncrewed spacecraft sent from Earth to explore objects in space.
5. A(n) _____ uses a convex lens to gather and concentrate light from objects in space.
6. A(n) _____ lifts people and equipment into space by propelling exhaust gas from one end.
7. A(n) _____ is a reusable spacecraft that transports people and materials to and from space.
8. A lander touches down on a planet's surface and sometimes releases a robotic _____.

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- 9. A(n) _____ sends data as it passes by a planet, but it does not orbit or land.
- 10. The ceramic material developed for space shuttles is also used to make _____.
- 11. Cooler stars can be observed in the _____ part of the electronic spectrum.

Interpreting a Table

Directions: Complete the table by writing the correct term from the word bank in the correct space. Not all terms are used.

Apollo Cassini New Horizons
Phoenix Ulysses Voyager 1

Type	Name	Accomplishment
Uncrewed orbiter	12.	First orbiter sent to Saturn
Uncrewed lander	13.	Analyzed Martian surface to find water
Uncrewed flyby	14.	Explored Jupiter and Saturn
Crewed mission	15.	Put first humans on the Moon

Short Answer

Directions: Respond to each statement on the lines provided.

- 16. **Describe** how the development of new materials for space exploration could build support for the space program.

- 17. **Discuss** the goal of Project Apollo and why the project came about.

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Multiple Choice

1. C
2. D
3. A

Completion

4. space probe
5. refracting telescope
6. rocket
7. space shuttle
8. rover
9. flyby
10. orthodontic braces
11. radio wave

Interpreting a Table

12. *Cassini*
13. *Phoenix*
14. *Voyager 1*
15. Apollo

Short Answer

16. Many new materials have been developed as a result of the space program, and some of them have been put to use in objects that people use every day. Students should recognize that people who see the benefit of space technology research in their everyday lives might be more supportive of the space program because of its practical applications here on Earth.
17. Project Apollo came about as the result of a challenge issued by President John Kennedy in 1961. He set a goal of landing a man on the Moon by the end of the decade. Project Apollo succeeded in achieving Kennedy's goal in 1969.