16. Answers may vary. Sample answer: Newton's third law states that for every action, there is an equal reaction in the opposite direction. A rocket's combustion chamber contains gases that are under extreme pressure. As the gases escape downward through the rocket's bottom, the rocket reacts by moving in the opposite direction.
17. Answers may vary. Sample answer: One disadvantage of LEO is that a satellite cannot maintain constant communication with a ground station because it is orbiting faster than the Earth rotates.

CONCEPT MAPPING

18. a. Venus, b. Jupiter, c. Mars, d. volcanoes, e. faint rings, f. dry water channels

Chapter Test C

1. C
2. B
3. D
4. B
5. C
6. A
7. D
8. D
9. B
10. C
11. D
12. A
13. B
14. A
15. C
16. B
17. thrust
18. orbital velocity
19. escape velocity
20. GEO
21. NASA
22. GPS
23. remote sensing
24. space probes
25. space station

Standardized Test Preparation

READING

Passage 1

1. C
2. H
3. B

Passage 2

1. B
2. H

INTERPRETING GRAPHICS

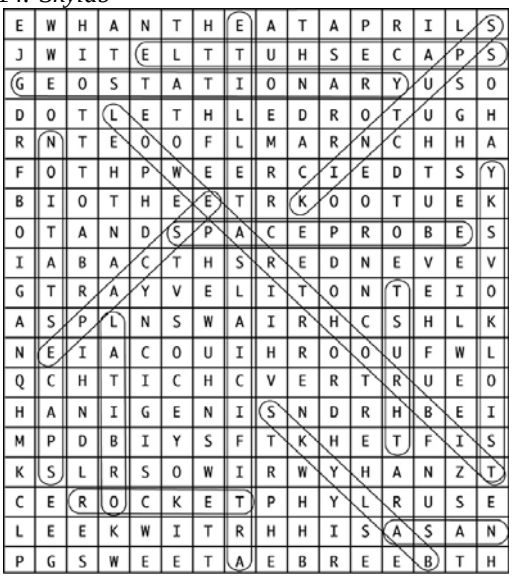
1. B
2. H
3. C
4. H

MATH

1. D
2. H
3. B
4. G

Vocabulary Activity

1. low Earth orbit
2. rocket
3. *Sputnik*
4. space probe
5. escape
6. artificial satellite
7. space shuttle
8. Tsiolkovsky
9. Thrust
10. geostationary
11. space station
12. Orbital
13. NASA
14. *Skylab*



SciLinks Activity

Response will vary. Students should mention doing research and experiments in their stories.

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