Answer Key

Directed Reading A

SECTION: ROCKET SCIENCE

1. 165
2. rocket
3. A
4. C
5. A
6. B
7. C
8. D
9. B
10. Von Braun and his research team surrendered to the Americans near the end of WWII, giving the United States the best German rocket scientists.
11. in response to Soviet advances in space
12. National Aeronautics and Space Administration
13. D
14. B
15. C
16. A
17. because they are under extreme pressure
18. There is little or no oxygen in space, and oxygen is needed to burn fuel.
19. A
20. D
21. C
22. D
23. orbital velocity
24. It will fall back to Earth.
25. It will travel beyond Earth's orbit.

SECTION: ARTIFICIAL SATELLITES

1. any human-made object placed in orbit around a body in space, such as Earth
2. continuous updates on movement of gases in the atmosphere so that we can predict weather on Earth
3. communications satellites
4. remote-sensing
5. B
6. A
7. D
8. C
9. B
10. D
11. C
12. low Earth orbit (LEO)
13. geostationary
14. so that TV programs and other communications will not be interrupted
15. A
16. C
17. A
18. D
19. C
20. A
21. B
22. B
23. GEO
24. communications satellites
25. remote sensing
26. Landsat
27. change
28. EOS
29. satellites

SECTION: SPACE PROBES

1. space probe
2. Earth
3. They can complete missions that would be very dangerous and expensive for humans to undertake.
4. B
5. D
6. A
7. C
8. *Venera 9*
9. surface temperature and atmospheric pressure
10. Earth rocks
11. that Venus has a severe greenhouse effect
12. *Magellan*
13. It has features that suggest plate tectonics, and it has volcanoes.
14. Viking
15. that Mars was once much warmer and wetter than it is now
16. Pathfinder
17. floods
18. It traveled across the surface of Mars for almost three months, collecting data and recording images.
19. C

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