

Chapter 7 Study Guide

Multiple Choice

1. The country which is believed to have built the first rockets is China.
2. The earliest rocket used black powder for propellant.
3. The fuel burned by Robert Goddard in his rockets was gasoline and liquid oxygen.
4. As a satellite comes nearer to the earth, to remain in orbit it must increase its speed.
5. The first man to orbit the earth was Yuri Gagarin.
6. The U.S. space program with the goal of landing a man on the moon was called Apollo.
7. The space program that tested procedures needed to put a man on the moon was Gemini.
8. The three main procedures Gemini tested were:
 - A. Spacewalking
 - B. Prolonged periods of weightlessness
 - C. Docking-joining two spacecraft in space
9. The spacecraft part used to land on the moon was the lunar module.
10. Man first landed on the moon on July 20, 1969.
11. The first man to walk on the moon was Neil Armstrong.
12. What famous statement did Armstrong say when he stepped onto the moon's surface? "That's one small step for man, one giant leap for mankind."
13. Challenger and Columbia were two space shuttles that were destroyed by an explosion.

Fill in the Blank

14. Because of his great contribution to rocketry, Goddard was recognized as the father of the modern rocket.
15. The United States' first satellite launched into space was Explorer 1.
16. Newton's third law of motion states that for every action, there is an equal and opposite reaction.

17. William Hale proposed adding fins to rockets to make them more accurate.
18. Robert H. Goddard's rocket fuel was composed of gasoline and liquid oxygen.
19. Objects in orbit are called satellites.
20. The first manmade satellite, Sputnik 1, was launched by the Soviet Union.
21. If a satellite orbits once every 24 hours, it is said to be in synchronous orbit.
22. Weather satellites are usually placed in a type of orbit known as a polar orbit.
23. Apollo 11 was the Apollo flight that first landed on the moon.
24. The first launch of a space shuttle occurred in 1981.

True/False

25. The Chinese invented and used rockets to defend their cities against the Mongols.
26. The launching of a rocket is based on the principles involved in Newton's third law of motion.
27. The Hubble Space Telescope is a satellite.
28. The Viking 1 and Viking 2 probes explored and sent back information about Mars.
29. The first manned American space flights were called Project Mercury.
30. The first U.S. space station was Skylab.
31. Space shuttles can be used several times.

Matching

32. The first American woman astronaut was Sally Ride.
33. The first shuttle orbit was the Columbia.
34. The first man to walk on the moon was Neil Armstrong.
35. The first mission to dock with another vehicle was Gemini 8.
36. The first American to walk in space was Edward White.

37. The first man to perform out-of-the-vehicle activity in space was Aleksei Leonov.
38. The first man to orbit the earth was Yuri Gagarin.
39. The first woman in space was Valentina Tereshkova.
40. The first American to orbit the earth was John Glenn.
41. The first to build a liquid fuel rocket was Robert Goddard.