Answer Key- Chapter 5 unit Test Science Probe 7

1. tiny particles
2. melting
3. freezing
4. sublimation
5. heat
6. particle
7. liquid
8. gas
9. solid
10. evaporation
11. condensation
12. physical
13. non-reversible
14. chemical
15. precipitate
16. faster
17. Melting ice
18. chemical
19. physical
20. physical
21. precipitate
22. gas, liquid
23. Evaporation
24. Rusting
25. non-reversible
26. difficult
27. substances
28. Heat
29. Solid
30. gas
31. C
32. H
33. E
34. D
35. G
36. F
37. F
38. A
39. D
40. B

41. a) All matter is made up of tiny particles.

    b) The particles of matter are always moving.

    c) The particles have spaces between them.

    d) Adding heat makes the particles move faster.

42. Melting ice, cutting wood, dissolving sugar in water.

43. Burning wood, rusting iron, baking a cake.

44. Heat causes particles to move faster and spread apart.

45. Color change, formation of gas, formation of a precipitate, temperature change, light or sound emitted.

46. The sugar particles mix with the water but remain sugar, no new substance is formed.

47. Particles gain energy and move faster, breaking free from their fixed positions.

48. Heat energy allows particles to move faster, and eventually, they break free from the liquid and become a gas.

49. Physical change, because no new substance is created, and the wood remains wood.

50. A reversible change can be undone, while a non-reversible change cannot be undone.