1. What is matter?
   A. Anything that is visible
   B. Anything that has mass and occupies space
   C. Only liquids
   D. Only solids (B)

Explanation : Matter is anything that has mass and occupies space.

2. Which of the following is not matter?
   A. Air
   B. Chair
   C. Cold
   D. Lemon water (C)

Explanation : Cold is a sensation, not a substance.

3. Matter is made up of:
   A. Waves
   B. Particles
   C. Rays
   D. Energy (B)

Explanation : Matter is composed of very small particles.

4. Why does the water level not increase when salt is dissolved?
   A. Salt disappears
   B. Salt melts
   C. Salt particles occupy spaces between water particles
   D. Water evaporates (C)

Explanation : Salt particles fill the spaces between water particles.

5. What does the potassium permanganate experiment show?
   A. Particles are large
   B. Particles are very small
   C. Water has no color
   D. Only solids mix (B)

Explanation : Continuous dilution still showing color proves particles are extremely small.

6. Which property of particles is correct?
   A. They do not move
   B. They have no mass
   C. There is space between them
   D. They are identical (C)

Explanation : There are spaces between particles of matter.

7. Mixing of particles of two substances on their own is called:
   A. Evaporation
   B. Condensation
   C. Diffusion
   D. Sublimation (C)

Explanation : Diffusion is the spontaneous mixing of particles.

8. What happens to kinetic energy when temperature increases?
   A. Decreases
   B. Increases
   C. Becomes zero
   D. No change (B)

Explanation : Higher temperature increases kinetic energy of particles.

9. Spreading of incense stick smell shows:
   A. Particles are fixed
   B. Particles are continuously moving
   C. Particles are visible
   D. Particles have no mass (B)

Explanation : Smell spreads due to continuous motion of particles.

10. Why is iron harder to break than chalk?
    A. Less space between particles
    B. More motion
    C. Stronger attraction between particles
    D. No mass (C)

Explanation : Stronger inter-particle force makes iron harder.