

## Grade 4 Science

# States of Matter

### A Fill in the blanks.

heat

insoluble substance

Liquid and gas

Gas

soluble substance

Solid

1. Substance that do not dissolve in water are called \_\_\_\_\_.
2. Substance that dissolve in water are called \_\_\_\_\_.
3. \_\_\_\_\_ has a fixed (definite) shape and volume.
4. \_\_\_\_\_ can flow.
5. \_\_\_\_\_ has no definite shape and volume.
6. To make matter change state, you need add or take away \_\_\_\_\_.

### B State true or false.

1. Cooling a vapour can change it into a solid. \_\_\_\_\_
2. Atoms and molecules can be seen easily with the naked eye. \_\_\_\_\_
3. The force of attraction between molecules of gases are very strong. \_\_\_\_\_
4. Chalk cannot dissolve in water. \_\_\_\_\_
5. Water change into ice on cooling. \_\_\_\_\_
6. Matter cannot change from solid to liquid. \_\_\_\_\_
7. Sugar and salt are insoluble in water. \_\_\_\_\_
8. Camphor changes directly into solid state. \_\_\_\_\_
9. Salty water is an example of a solution. \_\_\_\_\_
10. Molecules in a gas are less tightly packed than solids. \_\_\_\_\_

**C Write the changes of state in the following statements.**

1. Ice is left out on the counter. \_\_\_\_\_
2. Camphor fumes in air when kept uncovered. \_\_\_\_\_
3. Water is left in a freezer. \_\_\_\_\_
4. Clothes are left out to dry. \_\_\_\_\_
5. Naphthalene balls become small when kept in woollen cloth. \_\_\_\_\_
6. A pond gets shallower at the end of a long hot summer. \_\_\_\_\_
7. Your hair was wet when you left out the house, but dries by  
the time you get the school. \_\_\_\_\_
8. The ice cream you are eating drips down your arm. \_\_\_\_\_
9. A cold drink is wet on the outside of the glass. \_\_\_\_\_
10. Big fluffy clouds turning into rain drops. \_\_\_\_\_

**D Match the following.**

Column 1	Column 2
1. Solid	a. Solid directly change into gas.
2. Gases	b. Solution
3. Liquid	c. Have fixed shape and volume
4. Evaporation	d. Matter is made up of these tiny particles.
5. Sublimation	e. Molecules are loosely packed
6. Molecules	f. Force of attraction not very strong
7. Water Salty	g. Clothes are left out to dry.

## Answers

- A.
1. soluble substance
  2. insoluble substance
  3. Solid
  4. Liquid and gas
  5. Gas
  6. heat
- B.
1. False
  2. False
  3. False
  4. True
  5. True
  6. False
  7. False
  8. False
  9. True
  10. False
- C.
1. Melting
  2. Sublimation
  3. Freezing
  4. Evaporation
  5. Sublimation
  6. Evaporation
  7. Evaporation
  8. Melting
  9. Condensation
  10. Condensation
- D.
1. c      2. e      3. f      4. g      5. a      6. d      7. b