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Solution: 1

The condition for something to be called matter is that it should occupy space and have mass.

Solution: 2

Diffusion and Brownian motion.

Solution: 3

Diffusion.

Solution: 4

The characteristic of matter illustrated by this observation is that the particles of matter have spaces between them.

Solution: 5

This displays that each crystal of Potassium Permanganate must be made up of millions of small particles i.e. particles of matter are very very small.

Solution: 6

This shows that the particles of matter are constantly moving in all direction.

Solution: 7

This displays that the particles of matter attract one another. In case of chalk, the force of attraction between the particles is weak whereas the force of attraction between the particles of iron is very very strong.

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Solution: 8

Atoms or Molecules.

Solution: 10

(a) Solid.

(b) Liquid and Gas.

Solution: 11

(a) Gases.

(b) Solids.

(c) Solids.

Solution: 12

Liquid.

Solution: 13

Gas.

Solution: 14

Solid.

Solution: 15

Gas.

Solution: 16

LPG (Liquefied Petroleum Gas) and Oxygen Gas respectively.

Solution: 17

(a) LPG - Liquefied Petroleum Gas.

(b) CNG - Compressed Natural Gas.

Solution: 18

Gas diffuses faster.

Solution: 19

Copper Sulphate into water.

Solution: 20

False.

*****END*****