

Grade - 5

Subject- Physics

Chapter – 11, Lesson - 3



How do phase changes occur?

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Definition:

i. Boiling point- The temperature at which a liquid starts to boil is called its boiling point. The boiling point of water is 100°C

ii. Melting point- The temperature at which a solid turns into liquid is its melting point. The melting point of ice is 0°C .

iii. Freezing point- The temperature at which a liquid turns into solid is called its freezing point. The freezing point of water is 0°C .

iv. Condensation- Condensation is a process of changing a gas into liquid. This happens when gas particles touch a cooler surface and drop temperature.

v. Evaporation- It is a process of changing a liquid into gas.

Q/A

1. How does phase change occur?

Ans. Phase change occurs due to change in arrangement and motion of particles, atoms or molecules of a substance.

2. Why does matter change size when they change temperature?

Ans. A matter changes size when its temperature changes. When a matter gets temperature, its molecules move faster. Fast moving particles generally have more space between them. This additional space causes the matter become a little larger. When it cools, it becomes a little smaller as the particles move slowly and there is less space in between.

3. A gas can be squeezed more than a solid or liquid. Why?

Ans. Particles are very far apart in gases. Gas can be squeezed more than a solid or a liquid because of the spaces in between its particles.