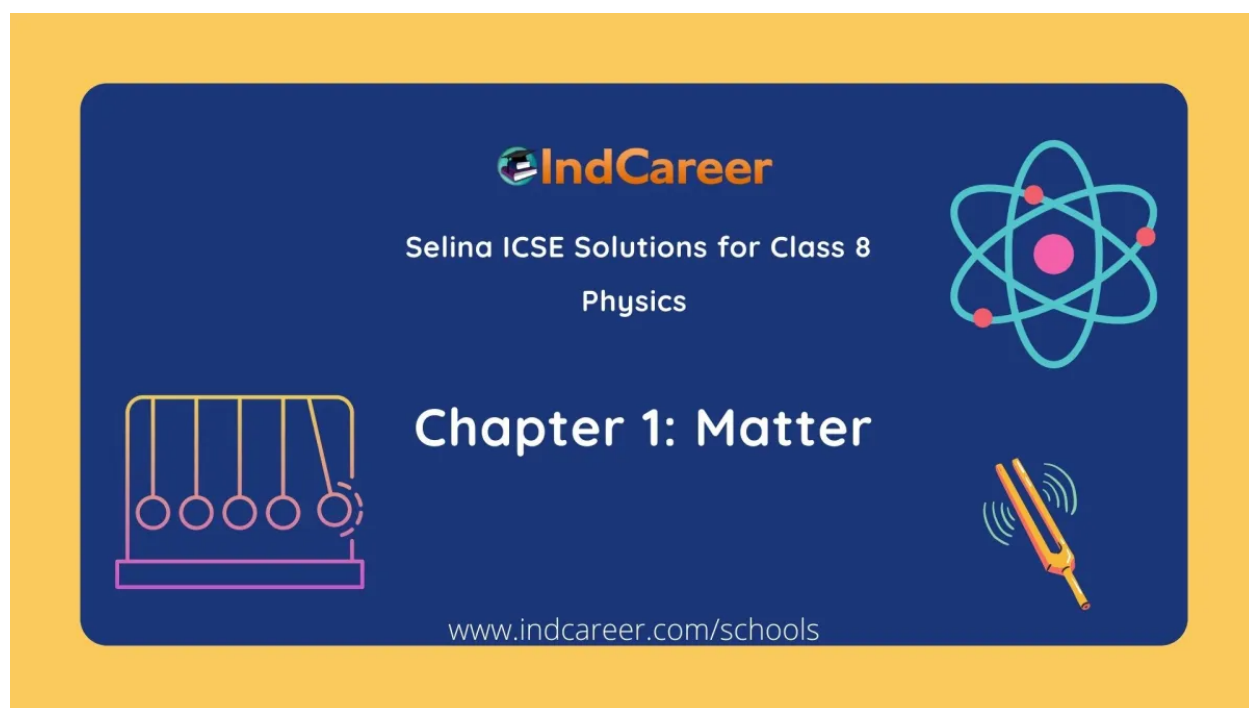


Selina Class 8 ICSE Solutions Physics :

Chapter 1- Matter



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Selina Class 8 ICSE Solutions Physics :

Chapter 1- Matter

Class 8: Physics Chapter 1 solutions. Complete Class 8 Physics Chapter 1 Notes.

Selina Class 8 ICSE Solutions Physics : Chapter 1- Matter

Selina 8th Physics Chapter 1, Class 8 Physics Chapter 1 solutions

A. Objective Questions

1. Write true or false for each statement

(a) The temperature of a substance remains unaffected during its change of state.

Answer: True.

(b) Ice melts at 100°C .

Answer: False.

(c) Water at 100°C has more heat than the steam at 100°C .

Answer: False.

(d) Evaporation of a liquid causes cooling.

Answer: True.

(e) Water evaporates only at 100°C .

Answer: False.

(f) Boiling takes place at all temperatures.

Answer: False.

(g) Evaporation takes place over the entire mass of the liquid.

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Answer: False.

(h) The process of a gas converting directly into gas is called vaporization.

Answer: False.

(i) At high altitudes, water boils above 100°C .

Answer: False.

(j) The melting point of ice is 0°C .

Answer: True.

Question 2.

Fill in the blanks

(a) Evaporation takes place at all temperature.

(b) Freezing process is the just reverse of melting.

(c) Sublimation is a process that involves the direct conversion of a solid into its vapour on heating.

(d) The temperature at which a solid convert into a liquid is called it's melting point.

(e) The smallest unit of matter that exists freely in nature is called a molecule.

(f) Molecules of a substance are always in a state of motion and so they possess kinetic energy.

(g) Intermolecular space is maximum in gases less in liquids and the least in solids.

(h) The intermolecular force of attraction is maximum in solids, less in liquids and the least in gases.

Question 3.

Match the following:

Column A

(a) Molecules

(b) 100°C

Column B

(i) water boils

(ii) evaporation

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- | | |
|-------------------------|---------------------------------|
| (c) 0°C | (iii) changes from solid to gas |
| (d) At all temperatures | (iv) matter |
| (e) Camphor | (v) water freezes |

Solution:

Column A

Column B

- | | |
|---------------------------|---------------------------------|
| (a) Molecules | (iv) matter |
| (b) 100°C | (i) water boils |
| (c) 0°C | (v) water freezes |
| (d) At all temperatures | (ii) evaporation |
| (e) Camphor | (iii) changes from solid to gas |

Question 4.

Select the correct alternative

- (a) The inter-molecular force is maximum in

1. Solids
2. Gases
3. Liquids
- 4 none of the above

Solution: 1. Solids

- (b) The inter-molecular space is maximum in

1. liquids
2. solids
3. gases
4. none of the above

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Solution: 3. Gases

(c) The molecules can move freely anywhere in

1. gases
2. liquids
3. solids
4. none of the above

Solution: 1. Gases

(d) The molecules move only within the boundary of

1. liquids
2. gases
3. solids
4. none of the above

Solution: 1. Liquids

(e) The temperature at which a liquid gets converted into its vapour state is called its

1. melting point
2. boiling point
3. dewpoint
4. freezing point.

Solution: 2. Boiling point

(f) Rapid conversion of water into steam is an example of

1. evaporation
2. freezing
3. melting

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4. vapourization

Solution: 4. Vapourization

(g) Evaporation takes place from the

1. the surface of the liquid
2. throughout the liquid
3. mid-portion of the liquid
- 4 bottom of the liquid.

Solution: 1. surface of the liquid

(h) Boiling takes place from the

1. the surface of the liquid
2. throughout the liquid
3. mid-portion of liquid
4. none of the above.

Solution: 2. throughout the liquid



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- Chapter 2- Physical Quantities and Measurement
- Chapter 3- Force and Pressure
- Chapter 4- Energy
- Chapter 5- Light Energy
- Chapter 6- Heat Transfer
- Chapter 7- Sound
- Chapter 8- Electricity

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