



INDIAN SCHOOL NIZWA - WORKSHEET

CHEMISTRY

CH: 1 MATTER IN OUR SURROUNDINGS

Name: -----

Date: -----

Class: IX Sec: ----

1. Sugar crystals dissolve faster in hot water than in cold water. Why?
2. The melting points of two substances P & Q are 315 K and 405 K respectively. Which of them have stronger bonds?
3. How does diffusion of honey differ from the diffusion of ink and why?
4. Select the substances which undergo sublimation.
 - . Naphthalene, Solid water, Ammonium chloride, Common salt, Camphor, Solid CO_2
5. Latent heats of vapourisation of two liquids A & B are 100 J/Kg and 150 J/kg respectively. Which one can produce more cooling effect and why?
6. What is evaporation? In the following examples state which factor is responsible for the change in the rate of evaporation and how?
 - a) Clothes dry faster on a windy day.
 - b) Wet clothes dry faster on spreading them.
 - c) Clothes dry faster in sun than in shade.
 - d) Clothes take longer time to dry on a rainy day.
7. "Evaporation causes cooling". Explain.
8. Convert the following temperatures into Celsius scale. a) 273 K b) 500 K c) 343 K
9. People sprinkle water on the roof after a hot sunny day. Why?
10. Why do doctors advise to put strips of wet clothes on the forehead of a person having high fever?



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Reasoning Assertion Questions

- A) Both assertion and reason are correct statements, and reason is the correct explanation of the assertion.**
- (B) Both assertion and reason are correct statements, but reason is not the correct explanation of the assertion.**
- (C) Assertion is correct, but reason is wrong statement.**
- (D) Assertion is wrong, but reason is correct statement.**

1. **.Assertion:** The rate of diffusion of liquids is more than solids.
Reason : The intermolecular force of attraction is more in solids than in liquids.
2. **Assertion:** During evaporation of a liquid, the temperature of the liquid remains unaffected.
Reason: Kinetic energy of molecules is directly proportional to temperature.
3. **Assertion:** Naphthalene balls disappear with time without leaving any residue.
Reason: Naphthalene balls convert from solid to liquid state very quickly.
4. **Assertion:** Ice floats on water.
Reason: Liquids have lower density than solids.
5. **Assertion :** Steam is better than boiling water for heating purposes.
Reason: Steam contains more heat in the form of latent heat than boiling water.