

Science Worksheet 3

Grade IX

Matter in our Surroundings

Q1. Fill in the blanks:

- In gaseous state intermolecular force are very _____
- Both liquid and gases are known as _____
- The foul smell of sewage is due to _____
- Liquids have _____ density than gases.
- _____ metal is liquid at room temperature.
- Density is measured in _____.

Q2. State two characteristics of matter demonstrated by

- Diffusion
- Brownian motion.

Q3. Why do gases have neither a fixed shape nor a fixed volume?

Q4. Differences between:

- Gas and vapour
- Evaporation and boiling
- Solid, liquid and gas

Q5. Define latent heat of fusion of a solid.

Q6. What is humidity? What is its effect on evaporation?

Q7. Give two reasons for saying that wood is a solid.

Q8. Why is the melting point of a substance very important?

Q9. What is meant by liquefaction? Discuss different ways by which liquefaction of gases can be achieved.

Q10. Convert the following temperatures to the Kelvin scale-

- 25 °C
- 373 °C

Q11. State two factors affecting evaporation with reasons.

Q12. Define condensation and freezing.

Q13. To make a saturated solution, 36 g of sodium chloride is dissolved in 100 g of water at 293 K. Find the concentration at this temperature.