



CHEMISTRY

BOOKS - SWAN PUBLICATION

MATTER IN OUR SURROUNDINGS

Page 3 Of Text Book

1. Which of the following are matter ?

Chair, air, love, smell, hate, almonds, thought,
cold, cold-drink, smell of perfume.



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2. Give reason for the following observation:

The smell of hot sizzling food reaches you several metres away, but to get the smell from cold food you have to go close.



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3. A diver is able to cut through water in a swimming pool, which property of matter does

this observation show.



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4. What are the characteristics of the particles of matter?



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1. The mass per unit volume of a substance is called density.(density=mass/volume). Arrange the following in order of increasing density - air, exhaust from chimneys, honey water, chalk, cotten and iron,



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2. Tabulate the difference in the characteristics of states of matter.



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3. Comment upon the following : rigidity, compressibility, fluidity, filling a gas container, shape, kinetic energy and density.



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4. Give reasons :

A gas fills completely the vessel in which it is kept.



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5. Give reason : a gas exerts pressure on the walls of the container.



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6. Give reason : A wooden table should to be called a solid.



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7. Give a reason : We can easily move our hand in air but to do the same in solid block of wood we need a Karate expert.



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8. Liquids generally have lower density as compared to solids. But you must have observed that ice floats on water. Find out why?



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1. Convert the following temperature to celsius scale: 300 K ?



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2. Convert the following temperature to celsius scale: 573 K ?



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3. What is the physical state of water at:
 $250^{\circ}C$?



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4. What is the physical state of water at:
 $100^{\circ}C$?



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5. For any substance, Why does the temperature remain constant during the change of state?



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6. Suggest a method to liquefy atmospheric gases.



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1. Why does a desert cooler cool better on a hot dry day ?



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2. How does the water kept in an earthen pot (matka) become cool during summer ?



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3. Why does our palm feel cold when we put some acetone or petrol or perfume on it?



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4. Why are we able to sip hot tea or milk faster from saucer rather than a cup ?



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5. What type of clothes should we wear in summer ?



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Exercises

1. Convert the following temperature to the Celsius scale : 293 K



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2. Convert the following temperature to the Celsius scale :470 K



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3. Convert the following temperatures to the Kelvin scale : $25^{\circ}C$



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4. Convert the following temperatures to the Kelvin scale : $1373^{\circ}C$



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5. Give reason for the following observations:
Naphthalene balls disappear with time without leaving any solid.



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6. Give reason for the following observations :

We can get the smell of perfume sitting several metres away.



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7. Arrange the following substances in increasing order of forces of attraction between the particles— water, sugar, oxygen.



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8. What is the physical state of water at:
 $250^{\circ}C$?



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9. What is the physical state of water at:
 $100^{\circ}C$?



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10. What is the physical state of water at:
 $100^{\circ}C$?



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11. Give two reasons to justify that :Water at
room temperature is a liquid.



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12. Give two reasons to justify that :An iron almira is a solid at room temperature.



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13. Why is ice at 273 K more effective in cooling than water at the same temperature ?

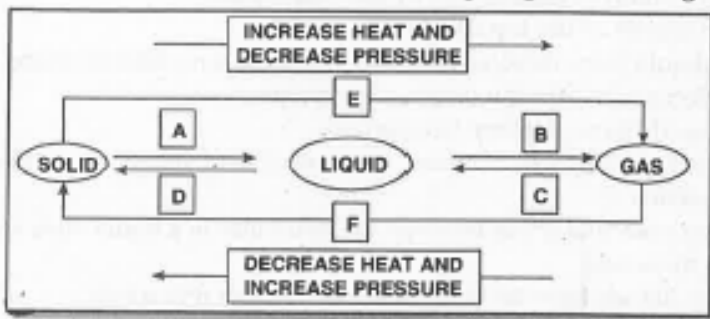


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14. What produces more severe burns : boiling water or steam ?

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15. Name A, B, C, D, E and F in the following diagram showing state change



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Important Q A

1. Name the three states of matter.



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2. What is the full form of CNG ?



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3. Define melting point.



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4. What is melting point of ice ?



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5. Define latent heat.



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6. Define boiling point. What is elevation in boiling point ?



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7. What is the boiling point of water ?



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8. How can we change the state of matter ?



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9. What is dry ice ?



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10. Why is solid carbon-dioxide called dry ice ?



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11. What is Evaporation ?



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12. Discuss the factors affecting evaporation.



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13. Evaporation causes cooling. Explain why?



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14. Why do the people sprinkle water on the roof or open ground after a hot sunny day ?



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15. What is plasma?



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