



CHEMISTRY

NCERT - NCERT CHEMISTRY(BENGLI ENGLISH)

MATTER AROUND US

Think And Discuss

1. Let us stretch a rubber band. Is there a change in its shape?



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2. Is rubber band solid or liquid? Why? (What will happen if the stretching is stopped ? What will happen if the stretching is too much?)

Take some finely powdered salt (not crystals) and keep it in two different jars.



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3. Which shape does the powdered salt take?





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4. Can you say that salt is a liquid on the basis of change in its shape? Justify your answer.

Take a sponge. Observe its shape.



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5. Can you compress it? Is it a solid? Why?

Think. Is anything coming out from the sponge when it is compressed.



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6. Why can't you able to compress a wooden block?



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Let Us Improve Our Learning Reflections On Concepts

1. Explain diffusion phenomenon based on the states of matter. (AS_1)



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2. Mention the properties of solids (AS_1)



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3. Mention the properties of liquids (AS_1)



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4. What is fluid? (AS_1)





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5. Mention the properties of gases (AS_1)



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6. Give two daily life situation where you observe the diffusion (AS_1)



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Let Us Improve Our Learning Application Of Concepts

1. Mention works where we use compressibility in our daily life? (AS_1)



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2. Mention the situations where we use diffusion in our day-to-day life (AS_1)



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3. How can we smell perfume sitting several meters away from the source? (AS_1)



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4. How do you prove that the speed of diffusion of ammonia is more than that of the speed of diffusion of hydrochloric acid? (AS_3)



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5. Give examples that the matter which will be available in different states. (AS_1)



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6. Draw the diagram showing the experimental arrangement to verify the speed of diffusion of two gases (AS_1)



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Let Us Improve Our Learning Higher Order Thinking Questions

1. We can't rejoin the broken chalk easily. Give reason. (AS_1)



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2. Is the space between the particles in the matter influence the speed of diffusion? Explain. (AS_2)



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Let Us Improve Our Learning Multiple Choice Questions

1. Which of the following is available in three states in our daily life (at normal conditions)

A. Petrol

B. Water

C. Milk

D. Kerosine

Answer:



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2. Which of the following can be compressed

A. Iron

B. Water

C. Air

D. Wooden piece

Answer:



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3. In which of the following substance speed of diffusion is more

A. Smell of Petrol

B. Smell from flowers

C. Smell from Napthaline balls

D. Gas leaked from gas cylinder

Answer:



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Let Us Improve Our Learning Suggested Experiments

1. Conduct an experiment to observe the speed of diffusion of two substances.



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2. Conduct an experiment to show the space between the particles of matter and write the

report.



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Let Us Improve Our Learning Suggested Project

1. Make a model to explain the structure of particles in solids, liquids and gases.



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2. What are the factors influencing diffusion, whether the arrangement of atoms in the substance that diffuse or the arrangement of atoms of the medium in which the substance is kept.



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3. Some solids diffuse in liquids but not in gasses, some solids diffuse in gasses but not in liquids. Why?





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