

HOLIDAY HOMEWORK – 2019 – 2020

Class: IX

Subject:

Science - CHEMISTRY

S. NO	TOPIC	ACTIVITY	TIME PERIOD	SKILL ENHANCED / LEARNING OUT COMES	ANNEXURE NO
1	Matter – Particle Nature	a) Questions and Answers b) Describing activities	1 hr	Knowledge Understanding Application	A
2	States of Matter	Questions and Answers	1 hr	Understanding Application	B
3	Changes of states	Questions and Answers	1 hr	Knowledge Understanding Application	C
4	Project work	Making models	1 hr	Understanding Application	D

Annexure:

- A) Matter → Descriptive Questions and Application of Understanding → 8 Nos.
 B) States of Matter → Descriptive Questions → 5 Nos.
 C) Changes of states → Descriptive Questions → 7 Nos.
 D) Project Work → Working model [Application of Understanding] → One model

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Vice Principal**Approved By**
Principal

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CHEMISTRY

ANNEXURE -A

1. Define matter. Give ten examples.
2. Which of the following are non-matter?
Fog, Humidity, Smell, Smell of perfumes, Air, sponge, Love, Melting point, Heat
3. Is matter continuous or discrete?
4. Describe an activity to show that matter is composed of particles [Atoms/Molecules].
5. Describe an activity to show that particles of matter are extremely small.
6. Describe an activity to show the presence of free-spaces (gaps) in water.
7. Describe an activity to show that gases are compressible and liquids are not.
8. Name the different types of motions possessed by particles of matter.

ANNEXURE -B

1. Name the three common states of matter. Give five examples of each.
2. What is plasma? Give two examples in which matter is present in the plasma state.
3. What is BEC?
4. Compare the properties of solids, liquids and gases.
5. i) What is diffusion?
ii) Give one examples each-
 - a) Diffusion of gasses in gases
 - b) Diffusion of liquids in liquids
 - c) Diffusion of solids in liquids
 - d) Diffusion of solids in solids.



ANNEXURE-C

1. Define the following terms:-
 - i) Melting
 - ii) Freezing
 - iii) Boiling
 - iv) Evaporation
 - v) Condensation
 - vi) Sublimation
2. What happens when a solid is heated? Explain
3. What happens when a liquid is heated? Explain.
4. For any substance, why does the temperature remain constant during the change of state.
5. State the conditions required to liquefy-
 - a) Butane gas
 - b) Carbon dioxide
 - c) Air
6. Why does evaporation cause cooling of a system?
7. State reasons for the following:-
 - a) Water kept in an earthen pot becomes cool during summer.
 - b) A desert cooler cools better on a hot dry day
 - c) Our palm feels cold when we put some acetone or petrol on it.

ANNEXURE - D

PROJECT WORK:-

Prepare a working model to explain the effect of pressure on liquids and gases