

**KLE SOCIETY'S SCHOOL, NAGARBHAVI, BENGALURU**

**NAME:** \_\_\_\_\_

**GRADE: 9**

**DATE:** \_\_\_\_\_

**SUBJECT: SCIENCE**

**PRACTICE PAPER**

**Topic: Matter in our surroundings**

**I. Fill in the blanks:-**

1. Matter is made up of small \_\_\_\_\_.
2. The forces of attraction between the particles are \_\_\_\_\_ in solids, \_\_\_\_\_ in liquids and \_\_\_\_\_ in gases.
3. \_\_\_\_\_ is the change of gaseous state directly to solid state without going through liquid state, and vice-versa.
4. Evaporation causes \_\_\_\_\_.
5. Latent heat of fusion is the amount of heat energy required to change 1 kg of solid into liquid at its \_\_\_\_\_.
6. The smell of perfume gradually spreads across a room due to \_\_\_\_\_.
7. Rapid evaporation depends on the \_\_\_\_\_ area exposed to atmosphere.
8. As the temperature of a system increases, the pressure of the gases \_\_\_\_\_.
9. As the volume of a specific amount of gas decreases, its pressure \_\_\_\_\_.
10. Gas molecules at higher temperatures have more \_\_\_\_\_ than at cooler temperatures.
11. Forces of attraction in liquids are \_\_\_\_\_ than in solids.

**II. Answer the following questions:-**

1. A drop of dettol got evenly distributed in water. How?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

2. Liquid nitrogen is used as a commercial refrigerant to flash frozen foods. Nitrogen boils at - 196°C. What is this temperature on the Kelvin temperature scale?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3. Convert the following Kelvin temperature to degree Celsius.

- a. 175 K
- b. 295 K
- c. 300 K
- d. 225 K

\_\_\_\_\_

\_\_\_\_\_

4. Which phenomenon occurs during the following changes?

- i. Wax melts under the sun - \_\_\_\_\_
- ii. Drying of wet clothes - \_\_\_\_\_
- iii. Formation of clouds - \_\_\_\_\_

5. Why does the temperature of a substance remain constant during its melting point or boiling point?

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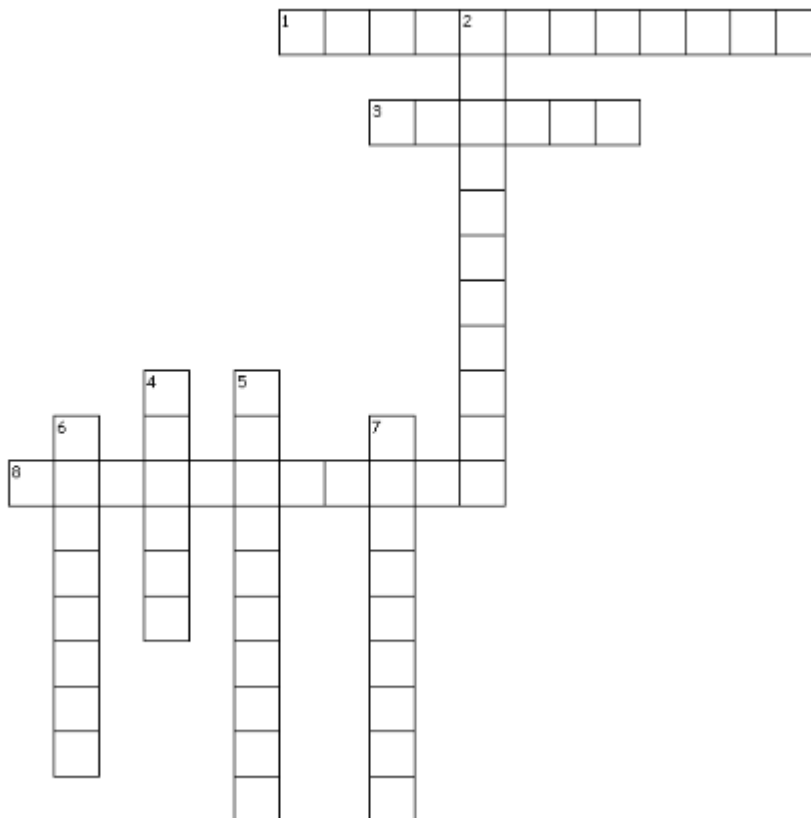
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### III. Crossword Puzzle



#### Across

1. BEC stands for Bose-Einstein-\_\_\_\_\_
3. The state consists of super energetic and super excited particles
8. Conversion of solid to vapour is called \_\_\_\_\_

#### Down

2. This is the phenomenon of change of a liquid into vapours at any temperature below its boiling point
4. SI unit of Temperature
5. CNG stands \_\_\_\_\_ natural gas
6. It is the amount of water vapour present in air.
7. LPG stands for \_\_\_\_\_ petroleum gas