

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.

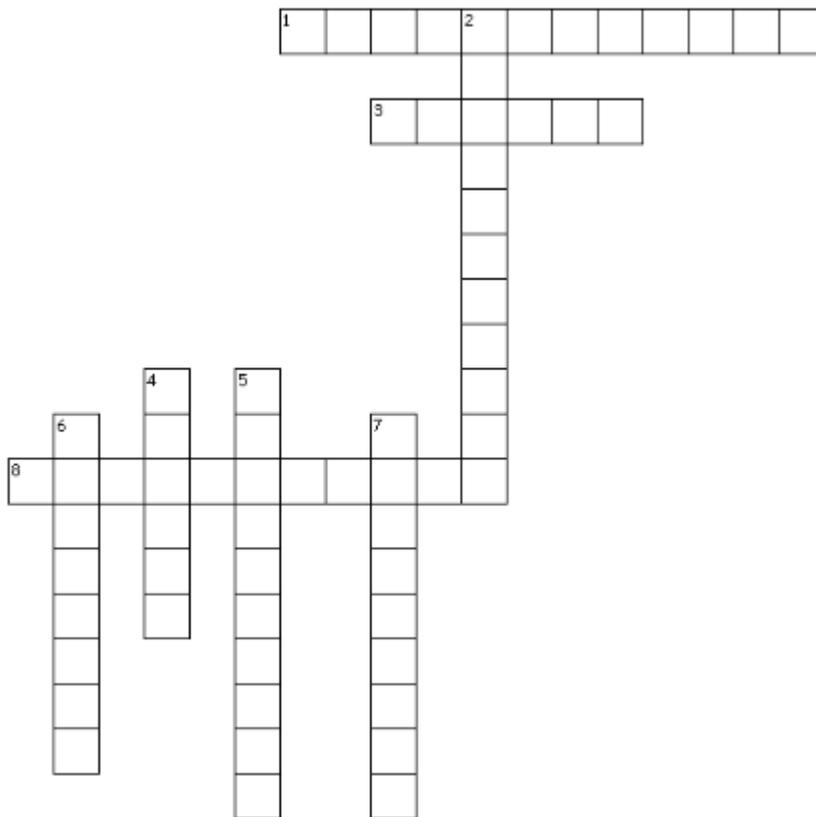
- a. 175 K
- b. 295 K
- c. 300 K
- d. 225 K

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?

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