

The Punjab School-DRC
Class 9th
Chemistry- Vacation Engaging Task

Chapter 1

1. Write definitions of following and also write their scope and examples.

- a) Definition of chemistry.
- b) Physical chemistry
- c) Organic chemistry
- d) Inorganic chemistry
- e) Bio-chemistry
- f) Industrial chemistry
- g) Nuclear chemistry
- h) Industrial chemistry
- i) Nuclear chemistry
- j) Environmental chemistry
- k) Analytical chemistry

- 2. Difference b/w substance & element.
- 3. What are physical and chemical properties? Also give examples.
- 4. Define elements and write their classification.
- 5. What is valency? Explain with examples.
- 6. Name the elements that show variable valency and give examples.
- 7. What is compound? Also give examples.
- 8. Differentiate b/w compound and mixture.
- 9. What are homogeneous mixture and heterogeneous mixture? Also give examples.

Chapter 5

- 1. What is matter and write the names of three states of matter.
- 2. What are solids, liquids, and gases?
- 3. Differentiate diffusion and effusion?
- 4. What is pressure and write its units?
- 5. Define standard atmospheric pressure?
- 6. Why gases are compressible?
- 7. Define Boyle's law.
- 8. Define Charles's law.
- 9. What is systolic and diastolic pressure?
- 10. What is evaporation?
- 11. Why evaporation cause cooling?
- 12. Define vapour pressure?
- 13. Define boiling point and freezing point.
- 14. Which principle is used in "Pressure Cooker"?
- 15. Define amorphous solids with example.
- 16. Define crystalline solids with example.
- 17. What is allotropy? What are reasons of allotropy?
- 18. Define transition temperature with examples.
- 19. Which form of Sulphur exists at room temperature?
- 20. Why is white tin available at room temperature?
- 21. Why amorphous solids do not have sharp melting points while crystalline solids do have?