

## 1.1| MATTER

Anything which occupies space, has mass and can be felt by our one or more five senses is known as matter. E.g. air, water, iron etc.

### CLASSIFICATION OF MATTER

Matter can be classified on the basis of their physical and chemical properties as:

#### BASED ON PHYSICAL PROPERTIES MATTER

- 1) Solid
- 2) Liquid
- 3) Gases

#### BASED ON CHEMICAL PROPERTIES

- 1) Elements
- 2) Compounds
- 3) Mixture

Note: In this chapter we shall study about matter based on their physical properties.

## 1.2| PHYSICAL NATURE OF MATTER

### 1. MATTER IS MADE UP OF VERY-VERY SMALL PARTICLES

Example:

- (a) Dissolving of salt (or sugar) in water: the water and salt (or sugar) both are made up of particles, the particles of salt get into the spaces between particles of water.
- (b) If we take 2ml of dettol we can detect smell even in very dilute solution.

### 2. PARTICLES OF MATTER HAVE SPACE BETWEEN THEM

After dissolving 50gm salt in 100 ml of water, volume of solution remains 100 ml.

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### **Table of Contents Class 9 Science Notes**

1. Understanding the eBook Class 9 Science Notes
  - The Rise of Digital Reading Class 9 Science Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Class 9 Science Notes
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Class 9 Science Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Class 9 Science Notes
  - Personalized Recommendations

- Class 9 Science Notes User Reviews and Ratings
- Class 9 Science Notes and Bestseller Lists
- 5. Accessing Class 9 Science Notes Free and Paid eBooks
  - Class 9 Science Notes Public Domain eBooks
  - Class 9 Science Notes eBook Subscription Services
  - Class 9 Science Notes Budget-Friendly Options
- 6. Navigating Class 9 Science Notes eBook Formats
  - ePub, PDF, MOBI, and More
  - Class 9 Science Notes Compatibility with Devices
  - Class 9 Science Notes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Class 9 Science Notes
  - Highlighting and Note-Taking Class 9 Science Notes
  - Interactive Elements Class 9 Science Notes
- 8. Staying Engaged with Class 9 Science Notes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Class 9 Science Notes
- 9. Balancing eBooks and Physical Books Class 9 Science Notes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Class 9 Science Notes
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Class 9 Science Notes
  - Setting Reading Goals Class 9 Science Notes
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Class 9 Science Notes
  - Fact-Checking eBook Content of Class 9 Science Notes

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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