

# Science

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(Chapter – 1) (Matter in Our Surroundings) (Intext)

(Class – IX)

Page 3

## Question 1:

Which of the following are matter?

Chair, air, love, smell, hate, almonds, thought, cold, cold drink, smell of perfume.

### Answer 1:

Anything that occupies space and has mass is called matter. Matter can exist in three physical states—solid, liquid, and gaseous.

Chair and almond are forms of matter in the solid state.

Cold drink is a liquid state of matter.

Air and smell of perfume are gaseous states of matter.

Note: The sense of smell is not matter. However, the smell or odour of a substance is classified as matter.

The smell of any substance (say, perfume) is the gaseous form of that substance which our olfactory system can detect (even at very low concentrations). Hence, smell of perfume is matter.

## Question 2:

Give reasons for the following observation:

The smell of hot sizzling food reaches you several metres away, but to get the smell from cold food you have to go close.

### Answer 2:

Solids diffuse at a very slow rate. But, if the temperature of the solid is increased, then the rate of diffusion of the solid particles into air increases. This is due to an increase in the kinetic energy of solid particles. Hence, the smell of hot sizzling food reaches us even at a distance, but to get the smell from cold food we have to go close.

## Question 3:

A diver is able to cut through water in a swimming pool. Which property of matter does this observation show?

### Answer 3:

The ability of a diver to cut through water in a swimming pool shows that matter is made up of particles.

## Question 4:

What are the characteristics of particles of matter?

### Answer 4:

The characteristics of particles of matter are:

- > Particles of matter have spaces between them.
- > Particles of matter are continuously moving.
- > Particles of matter attract each other.

Page 6

## Question 1:

The mass per unit volume of a substance is called density. (Density = mass/volume). Arrange the following in order of increasing density – air, exhaust from chimneys, honey, water, chalk, cotton and iron.

### Answer 1:

The given substances in the increasing order of their densities can be represented as: Air < Exhaust from chimney < Cotton < Water < Honey < Chalk < Iron

# Physical Science Chapter 1

**J Rink**



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## **Table of Contents Physical Science Chapter 1**

1. Understanding the eBook Physical Science Chapter 1
  - The Rise of Digital Reading Physical Science Chapter 1
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Chapter 1
  - 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 Physical Science Chapter 1
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Chapter 1
  - Personalized Recommendations
  - Physical Science Chapter 1 User Reviews and Ratings
  - Physical Science Chapter 1 and Bestseller Lists
5. Accessing Physical Science Chapter 1 Free and Paid eBooks

- Physical Science Chapter 1 Public Domain eBooks
  - Physical Science Chapter 1 eBook Subscription Services
  - Physical Science Chapter 1 Budget-Friendly Options
6. Navigating Physical Science Chapter 1 eBook Formats
    - ePub, PDF, MOBI, and More
    - Physical Science Chapter 1 Compatibility with Devices
    - Physical Science Chapter 1 Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Physical Science Chapter 1
    - Highlighting and Note-Taking Physical Science Chapter 1
    - Interactive Elements Physical Science Chapter 1
  8. Staying Engaged with Physical Science Chapter 1
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Physical Science Chapter 1
  9. Balancing eBooks and Physical Books Physical Science Chapter 1
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Physical Science Chapter 1
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Physical Science Chapter 1
    - Setting Reading Goals Physical Science Chapter 1
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Physical Science Chapter 1
    - Fact-Checking eBook Content of Physical Science Chapter 1
    - 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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