

# SCIENCE AND TECHNOLOGY (IX)

## FIRST TERM

### PHYSICS:

Chapter 8: Motion

Chapter 9: Force and Laws of Motion

Chapter 10: Gravitation (till the topic – Mass & Weight; pg. 137)

#### Practicals

1. To verify the laws of reflection of sound.
2. To determine the density of solid by using a spring balance and measuring cylinder.

### CHEMISTRY

Chapter 1: Matter in Our Surroundings

Chapter 2: Is Matter Around us Pure?

#### Practicals

1. Preparation of a true solution, a suspension and a colloidal solution.
2. Preparation of a mixture and a compound using iron powder and sulphur powder.
3. Perform the reactions and classify them.
4. To determine the melting point of ice and boiling point of water.

### BIOLOGY:

Chapter 5: The Fundamental Unit of Life

Chapter 6: Tissues (till page number 72)

#### Practicals

1. To prepare a stained temporary mount of (a) onion peel, (b) human cheek cells & to record their observations and draw their labelled diagrams.
2. Identification of Parenchyma, Collenchyma and Sclerenchyma tissues in Plants, Striped, Smooth and Cardiac muscle fibres and Nerve cells in animals from prepared slides. Draw their labelled diagrams.

## **SECOND TERM**

### **PHYSICS:**

Chapter 10: Gravitation- Floatation

Chapter 11: Work and Energy

Chapter 12: Sound

#### **Practicals**

1. To establish the relation between the loss of weight of a solid when immersed in water with the weight of water displaced by it (Archimedes Principle)
2. To determine the speed of the pulse propagated through a stretched slinky.

### **CHEMISTRY**

Chapter 3: Atoms and Molecules

Chapter 4: Structure of the Atom

#### **Practicals**

1. Verification of Laws of Conservation of mass in a chemical reaction.

### **BIOLOGY:**

Chapter 15: Improvement in Food Resources

Chapter 6: Tissues (from page number 73-79)

