

## Telangana Board Class 8 Physical Science Syllabus

### Chapter 1: Force

- 1.1 What is force?
- 1.2 Types of forces
- 1.3 Net force
- 1.4 Effect of force on change of the state of motion of an object and its direction
- 1.5 Pressure

### Chapter 2: Friction

- 2.1 Force of friction – Types
- 2.2 Factors affecting friction
- 2.3 Is friction necessary?
- 2.4 Increasing the decreasing friction
- 2.5 Fluid Friction

### Chapter 3: Synthetic Fibres and Plastics

- 3.1 Clothes made from Natural fibres
- 3.2 What is synthetic fibre?
- 3.3 Identifying synthetic fibres
- 3.4 Some of the synthetic fibres / examples for synthetic fibres
- 3.5 Plastics around us
- 3.6 Biodegradable and non-bio degradable substances
- 3.7 Principle of 4R (Reduce, Recycle, Reuse and Recover)

### Chapter 4: Metals and Non-metals

- 4.1 Metals and non-metals: an introduction
- 4.2 Physical properties of metals and non metals
- 4.3 Chemical properties of metals and non metals
- 4.4 Reactivity of metals
- 4.5 Some uses of non-metals
- 4.6 Some uses of metals

## **Chapter 5: Sound**

- 5.1 Production of sound
- 5.2 Sound has energy
- 5.3 Musical instruments
- 5.4 Sounds produced by human
- 5.5 Sound propagation
- 5.6 How do we hear the sound
- 5.7 Characteristics of sound
- 5.8 Normal sound consists of mixed frequencies
- 5.9 Noise and music
- 5.10 Audible range
- 5.11 Sound pollution

## **Chapter 6: Reflection of Light at plane surfaces**

- 6.1 Formation of image by a Pinhole camera
- 6.2 Fermat principle
- 6.3 Plane mirror
- 6.4 Reflection – its laws
- 6.5 Plane mirrors – image formation

## **Chapter 7: Coal and Petroleum**

- 7.1 Sources of materials
- 7.2 Exhaustible and inexhaustible resources
- 7.3 Fuels – Coal, Petroleum, Natural Gas
- 7.4 Some petrochemical products
- 7.5 Natural gas and petrochemicals
- 7.6 Formation of coal, petroleum
- 7.7 Versatile nature of coal and petroleum
- 7.8 Conserving coal and petroleum
- 7.9 Misuse of energy resources

## **Chapter 8: Combustion, Fuels and flame**

- 8.1 Do all materials burn?
- 8.2 What is required for the process of combustion?
- 8.3 Ignition temperature
- 8.4 Types of Combustion
- 8.5 Fuels
- 8.6 Fire control
- 8.7 Flame

### **Chapter 9: Electrical Conductivity of Liquids**

- 9.1 Testing the material to know which allows electric current to pass through it.
- 9.2 Electrical conductivity of liquids
- 9.3 Chemical effects of electric current
- 9.4 Electrolytic cell
- 9.5 Electroplating

### **Chapter 10: Some natural phenomena**

- 10.1 Lightning
- 10.2 Charging by rubbing
- 10.3 Types of charges and their interaction
- 10.4 Story of Lightning – Safety measures
- 10.5 Earthquakes

### **Chapter 11: Stars and the Solar system**

- 11.1 Observing changes in the length of shadow
- 11.2 Understanding the North – South movement of Sun
- 11.3 Sun-dail
- 11.4 Phases of moon
- 11.5 Solar eclipse
- 11.6 Lunar eclipse
- 11.7 Know about stars
- 11.8 The Solar System

11.9 Artificial Satellites

11.10 How people know earth is spherical

## **Chapter 12: Graphs of Motion**

12.1 Motion, Graphs – Introduction

12.2 Graph is not a map

12.3 Graphs of uniform motion

12.4 Graphs of non-uniform motion



