

# **PRIMARY SCIENCE**

## **Syllabus for Primary Schools**

# YEAR 6

# **LEARNING OUTCOMES**

**for**

**YEAR 6**

## Sharing Our World

<b>6.1</b>	<b>6.2</b>	<b>6.3</b>	<b>6.4</b>
<b>OTHER ANIMALS AND US</b>	<b>PLANT LIFE</b>	<b>HABITATS</b>	<b>WEATHER WATCH</b>
6.1.1 Know that animals have body systems.	6.2.1 Observe differences between plants and animals.	6.3.1 Know that the environment is a system which can be harmed.	6.4.1 Be able to measure temperature, rainfall, wind speed and direction.
6.1.2 Recognize that knowledge on food groups help us build healthy diets			

## Energy

<b>6.5</b>	<b>6.6</b>	<b>6.7</b>	<b>6.8</b>
<b>FORCES</b>	<b>ELECTRICITY</b>	<b>SOUNDS</b>	<b>LIGHT</b>
6.5.1 Become aware of the term gravity as the force which pulls things down.	6.6.1 Know that a switch can be used to stop electric current from flowing.	6.7.1 Understand that some materials let sound pass through them while others reflect sound.	6..8.1 Know that light travels in straight lines.
6.5.2 Know that air resistance can slow down the movement of objects.	6.6.2 Know that switches are designed in a variety of ways.		6..8.2 Know that some materials let light pass through them.
			6.8.3 Know the effect of a magnifying glass.

## Materials Around Us

6.9 CHANGE	6.10 USES AND PROPERTIES OF MATERIALS	6.11 OUR PLANET AND ITS NEIGHBOURS	
6.9.1 Know that materials can change from one state to another.	6.10.1 Know that some materials occur naturally and others do not.	6.11.1 Know that the moon is a satellite of Earth and that other planets have moons.	
		6.11.2 Know that the sun is one of many stars in our galaxy.	

**PROGRAMME**

**for**

**YEAR 6**

## 6.1 Sharing Our World : Other Animals and Us

Learning Outcomes	Notes
6.1.1 Know that animals have body systems.  6.1.2 Recognize that knowledge on food groups help us build healthy diets	<ul style="list-style-type: none"><li>• know that some animals have inner body systems such as the digestive system that allow them to function properly.</li><li>• classify food into basic categories such as meat, eggs and cheese /fruit and vegetables / bread and cereals.</li><li>• use the above classifications to build a healthy diet.</li></ul>

## 6.2 Sharing Our World : Plant Life

Learning Outcomes	Notes
6.2.1 Observe differences between plants and animals.	<ul style="list-style-type: none"><li>• know that although all living things share certain basic life processes such as feeding, breathing, movement, growth and reproduction, there exist important differences between plants and animals in all these processes.</li></ul>

### 6.3 Sharing Our World : Habitats

Learning Outcomes	Notes
6.3.1 Know that the environment is a system which can be harmed.	<ul style="list-style-type: none"><li>• know about dangers posed to the environment such as over population, pollution, the destruction of rain forests, acid rain, greenhouse effect, poaching...</li><li>• know that conflict of interest arises around these issues but they should also be aware of the importance of planning for the protection of the environment as the quality of life depends on the quality of the environment.</li></ul>

### 6.4 Sharing Our World : Weather Watch

Learning Outcomes	Notes
6.4.1 Be able to measure temperature, rainfall, wind speed and direction.	<ul style="list-style-type: none"><li>• record the temperature, rainfall, wind speed and direction through the collection of weather reports etc. and through first hand experience in handling weather instruments.</li></ul>



## 6.5 Energy : Forces

Learning Outcomes	Notes
<p>6.5.1 Become aware of the term gravity as the force which pulls things down.</p> <p>6.5.2 Know that air resistance can slow down the movement of objects.</p>	<ul style="list-style-type: none"><li>• understand that all things fall down to the ground towards the centre of the earth.</li><li>• know that the pull of earth on all objects is called gravity.</li><li>• know that gravity acts on all objects on earth.</li><li>• know that the force of air acting against a moving object is called air resistance.</li><li>• know that air resistance always acts opposite to the direction of motion.</li><li>• know that the greater the area of an object, the greater is the amount of air resistance.</li></ul>

## 6.6 Energy : Electricity

Learning Outcomes	Notes
6.6.1 Know that a switch can be used to stop electric current from flowing. 6.6.2 Know that switches are designed in a variety of ways.	<ul style="list-style-type: none"><li>• understand the need of a switch to control the flow of current through a circuit.</li><li>• become familiar with a number of different switches.</li></ul>

## 6.7 Energy : Sound

Learning Outcomes	Notes
6.7.1 Understand that some materials let sound pass through them while others reflect sound.	<ul style="list-style-type: none"><li>• understand that some materials reflect sound.</li><li>• familiarise with several practical applications where the reflection of sound is used.</li></ul>

## 6.8 Energy : Light

Learning Outcomes	Notes
6.8.1 Know that light travels in straight lines. 6.8.2 Know that some materials let light pass through them. 6.8.3 Know the effect of a magnifying glass.	<ul style="list-style-type: none"><li>• Realise that light can pass through materials.</li><li>• Know that such materials are called transparent.</li><li>• Be able to show that light travels in straight lines.</li><li>• Know that lenses are used to produce magnified images of objects.</li></ul>

## 6.9 Materials Around Us : Change

Learning Outcomes	Notes
6.9.1 Know that materials can change from one state to another.	<ul style="list-style-type: none"><li>• know that a material can be either a solid, a liquid or a gas.</li><li>• know that solids can become liquids and liquids can become gases.</li><li>• know that a solid must be heated to become a liquid.</li><li>• know that a liquid has to be heated to become a gas.</li><li>• know that when a liquid is made to evaporate, it can be turned back into a liquid again.</li></ul>

## 6.10 Materials Around Us : Uses and Properties of Materials

Learning Outcomes	Notes
6.10.1 Know that some materials occur naturally and others do not.	<ul style="list-style-type: none"><li>• classify materials into two broad categories : natural materials e.g. wood, stone, wool .. and man made materials e.g. plastic, glass, nylon.</li><li>• classify products into two categories depending on the raw materials used for their production. (things made from natural materials e.g. wooden table, woollen jumper, and things made from non natural materials e.g. plastic ruler, glass jar.</li></ul>

## 6.11 Materials Around Us : Our Planet and Its Neighbours

Learning Outcomes	Notes
6.11.1 Know that the moon is a satellite of Earth and that other planets have moons. 6.11.2 Know that the sun is one of many stars in our galaxy.	<ul style="list-style-type: none"><li>• know that the moon is orbiting around the Earth</li><li>• know that the phases of the moon follow a regular pattern.</li><li>• know that some other planets (not all) in our solar system have moons.</li><li>• know that the sun is a star and that there are other stars in our galaxy.</li></ul>