

# **PRIMARY SCIENCE**

## **Syllabus for Primary Schools**

# YEAR 5

# **LEARNING OUTCOMES**

**for**

**YEAR 5**

## Sharing Our World

<b>5.1</b>	<b>5.2</b>	<b>5.3</b>	<b>5.4</b>
<b>OTHER ANIMALS AND US</b>	<b>PLANT LIFE</b>	<b>HABITATS</b>	<b>WEATHER WATCH</b>
5.1.1 Know that animals grow and reproduce.	5.2.1 Know that plants have a life cycle.	5.3.1 Observe that habitats change and that these changes effect plants and animals.	5.4.1 Know that the weather has an effect on the lives of people and other living things.
5.1.2 Group animals according to common features.	5.2.2 Group plants according to common features.		

## Energy

<b>5.5</b>	<b>5.6</b>	<b>5.7</b>	<b>5.8</b>
<b>FORCES</b>	<b>ELECTRICITY</b>	<b>SOUNDS</b>	<b>LIGHT</b>
5.5.1 Know that there are forces between magnets which push or pull.	5.6.1 Know that we can use different components in a circuit to do different jobs.	5.7.1 Know that sound can travel through materials. Know that when an object vibrates it produces sound.	5.8.1 Know how to use mirrors to see behind things.

## Materials Around Us

<b>5.9 CHANGE</b>	<b>5.10 USES AND PROPERTIES OF MATERIALS</b>	<b>5.11 OUR PLANET AND ITS NEIGHBOURS</b>	
5.9.1 Know that some materials can dissolve.	5.10.1 Discover that things are manufactured using materials.	5.11.1 Know that the Earth turns completely once a day.	
	5.10.2 Know that in the manufacture of things materials are chosen for their special properties.	5.11.2 Know that the Earth completes its orbit round the sun once a year.	

**PROGRAMME**

**for**

**YEAR 5**

## 5.1 Sharing Our World : Other Animals and Us

Learning Outcomes	Notes
5.1.1 Know that animals grow and reproduce.  5.1.2 Group animals according to common features.	<ul style="list-style-type: none"><li>• know that animals differ from non living things in that they grow and reproduce.</li><li>• know about the human life cycle as well as about some other animal life cycles such as the life cycle of a frog, butterfly, dragonfly, bird cat....</li><li>• be aware of the basic classification of animals into two broad categories : animals with / without backbone.</li><li>• know about the most common subgroups such as insects, birds, fish, mammals ...</li></ul>

## 5.2 Sharing Our World : Plant Life

Learning Outcomes	Notes
5.2.1 Know that plants have a life cycle.  5.2.2 Group plants according to common features.	<ul style="list-style-type: none"><li>• know that plants differ from non living things because they reproduce.</li><li>• know about the life cycle of certain plants such as the bean plant.</li><li>• know that plants vary from each other.</li><li>• group plants according to observable characteristics eg. evergreen/ deciduous trees; leaf shape, .....</li></ul>

### 5.3 Sharing Our World : Habitats

Learning Outcomes	Notes
5.3.1 Observe that habitats change and that these changes effect plants and animals.	<ul style="list-style-type: none"><li>• know that a habitat can change naturally eg. seasonal changes, natural disaster or else is changed by man’s actions.</li><li>• know that these changes have an effect on animal and plant life and that these changes may even lead to the extinction of certain species.</li></ul>

### 5.4 Sharing Our World : Weather Watch

Learning Outcomes	Notes
5.4.1 Know that the weather has an effect on the lives of people and other living things.	<ul style="list-style-type: none"><li>• give examples how weather can drastically effect living things through storms, flooding, gales, hurricanes ...</li><li>• give examples how living things adapt their lives to the different weather conditions they find themselves in. e.g. type of clothes worn, type of houses built, lifestyles, migration...</li></ul>

## 5.5 Energy : Forces

Learning Outcomes	Notes
5.5.1 Know that there are forces between magnets which push or pull.	<ul style="list-style-type: none"><li>• know that magnets can have different shapes.</li><li>• know that magnets are materials which attract only some metals.</li><li>• know that magnets have two ends which are called north and south pole.</li><li>• know that a north pole attracts a south pole and vice versa and that like poles repel.</li></ul>

## 5.6 Energy : Electricity

Learning Outcomes	Notes
5.6.1 Know that we can use different components in a circuit to do different jobs.	<ul style="list-style-type: none"><li>• identify components of a circuit eg. bulb, switch, battery,...</li><li>• set up simple circuits using a buzzer or a motor to realise that electricity does not only make a bulb like but for example can make a motor turn.</li></ul>

## 5.7 Energy : Sound

Learning Outcomes	Notes
5.7.1 Know that sound can travel through materials. Know that when an object vibrates it produces sound.	<ul style="list-style-type: none"><li>• demonstrate how sounds can be heard through materials e.g. partitions, string or even water etc.</li><li>• know that sound consists of vibrations and that objects vibrate when they produce sound.</li></ul>

## 5.8 Energy : Light

Learning Outcomes	Notes
5.8.1 Know how to use mirrors to see behind things.	<ul style="list-style-type: none"><li>• Be able to use mirrors to devise ways of seeing things which cannot be seen directly.</li></ul>

## 5.9 Materials Around Us : Change

Learning Outcomes	Notes
5.9.1 Know that some materials can dissolve.	<ul style="list-style-type: none"><li>• know that when some materials are mixed with water they dissolve.</li><li>• realise that when materials dissolve, they are still present in a liquid.</li><li>• know how to use the technical word dissolve correctly.</li><li>• realise that materials can dissolve in other liquids than just water.</li><li>• know that things which dissolve are called soluble while those which do not dissolve are known as insoluble.</li></ul>

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

Learning Outcomes	Notes
<p>5.10.1 Discover that things are manufactured using materials.</p> <p>5.10.2 Know that in the manufacture of things materials are chosen for their special properties.</p>	<ul style="list-style-type: none"><li>• identify the different materials used in a particular product. E.g. a car has a metal body, plastic parts, metal components, rubber tyres . .</li><li>• give reasons for the use of different materials in a product.. .</li><li>• compare two similar things made from different materials and list advantages/disadvantages of these things e.g. aluminium/wooden apertures; plastic whiteboard/wooden blackboard; metal/plastic cutlery ....</li></ul>

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

Learning Outcomes	Notes
<p>5.11.1 Know that the Earth turns completely once a day.</p> <p>5.11.2 Know that the Earth completes its orbit round the sun once a year.</p>	<ul style="list-style-type: none"><li>• know that the Earth takes 24 hours to turn completely and that this movement is responsible for night /day pattern.</li><li>• know that apart from turning on its own axis, the Earth is moving along its orbit round the sun.</li><li>• realise that the other planets in our solar system are all orbiting around the sun and that they take different times to complete their orbit.</li></ul>