# St. Joseph's R.C. Primary School Curriculum Overview Subject: Science Lead: K Ramsden 2023-2024

| CYCLE 1 | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|---|---|---|---|---|---|---|
| Nursery | • Who we are<br>• The world around us<br>• Our bodies<br>• Autumn changes<br>• Mud Kitchen<br>• Leaf study | • Changes in our natural environment<br>• Bubbling magic potions. | • Freezing and melting/ changing materials<br>• Changes in our natural environment ice/water/wind<br>• Stem activities | • Growing plants<br>• Exploring minibeasts<br>• Animal habitats.<br>• Showing care and concern for the environment.<br>• Animals and their young. | • Testing different materials to build houses<br>• Stem activities. | • To investigate real objects/materials from the seaside (seaweed/fossils/ shells)<br>• Under the sea creatures and their habitats.<br>• Floating and sinking |
| Reception | • Looking at & learning about living things in our immediate environment<br>• Our Body<br>• Teeth | • Changes in our natural environment | • Freezing/melting-changing materials<br>• Waterproofing/insulating<br>• Changes in our natural environment-ice/water/wind | • Growing plants<br>• Minibeasts<br>• Habitats<br>• Life cycles<br>• Oceans/seas<br>• Jungle | • Forces-making rockets, finding ways to make them travel<br>• To investigate using a light box<br>• Space Travel-Neil Armstrong/1st Moon landing<br>• Floating/Sinking | |
| Year 1 | **Animals including Humans**<br>Ourselves –Parts of the body | **Seasonal Changes-**<br>Autumn/Winter | **Everyday Materials**<br>Sorting materials according to their properties<br>**Seasonal Changes**- Spring/Summer | **Animals including Humans**<br>Comparing animals | **Plants**<br>Common plants, trees and flowers | **Making Connections**<br>Naming animals |
| Year 2 | **Use of everyday Materials**<br>How suitable are different materials? | **Animals including humans**<br>What do animals need to survive?<br>How do we stay healthy? | **Living things and their habitats**<br>How do animals obtain food from plants and other animals?<br>Living, dead, never been alive.<br>Food chains | | **Plants**<br>What do plants need to grow?<br>How do seeds and bulbs mature into plants? | **Making Connections**<br>Plant based materials |
| **Year 3** | **Energy: Light and Shadows**<br>How do we see things?<br>Sources of light, reflection, shadows | **Animals: Movement and Nutrition**<br>Why should we eat a balanced diet?<br>The Human Skeleton | **Materials: Rocks and Soils**<br>Can I classify rocks according to their properties? | **Plants: Plant Reproduction**<br>What are the functions of different parts of the plant? | **Forces & Space: Forces and Magnets**<br>How are forces affected by magnets?<br>Investigating materials that are attracted to magnets. And forces | **Making Connections**<br>Can I connection between the key concepts and skills? |
| **Year 4** | **Animals: Digestion and food**<br>How do our teeth help us to digest food?<br>Teeth, digestive system, food chains | **Energy: Electricity and circuits**<br>How does electricity travel?<br>Circuits and appliances | **Animals: Classification and changing habitats**<br>How are living things suited to their environment? Using key, living things and their environments. | **Energy: Sound and vibrations**<br>How are sounds made?<br>Vibrations, pitch, volume | **Materials: State of matter**<br>How do some materials change state?<br>States of matter –Solids, liquids and gases | **Making Connections**<br>How does the flow of liquids compare? |
| Year 5 | **Materials: Mixtures and Separating**<br>How do changes of state affect different materials?<br>Dissolving and separating mixtures | **Materials: Properties and changes**<br>Can I describe some of the properties of everyday materials | **Forces and space: Earth and Space**<br>How does the solar system, sun and moon affect the earth?<br>The earth. moon and sun<br>Night and Day | **Forces and space: Unbalanced Forces**<br>What impact does air/water resistance have on an object?<br>Air Resistance, water resistance, friction | **Living things and their habitats: Life cycles and reproduction**<br>How do mammals, amphibians and insects change from birth to old age? | **Making Connections**<br>Does the size of an asteroid affect the size of its impact crater? |
| Year 6 | **Energy: Light and reflection**<br>How does light travel?<br>Light traveling and changing direction, shadows | **Living things: Classifying big and small**<br>How can we classify micro-organisms, plants and animals? | **Living thing: Evolution and inheritance**<br>How do fossils give us information about life?<br>Genetics, adaptation, evolving | **Energy: circuits, batteries and switches**<br>How does the strength of electricity affect how components function?<br><br>Electrical circuits , voltage, using symbols | **Animals: Circulation and heath**<br>How are nutrients and water transported within animals and humans?<br>***Living Things***<br>The functions of the heart<br>Diet and exercise | **Making Connections**<br>Are some sunglasses safer than others? |