

# Leigh St Peter's CE Primary School

"Let Your **LIGHT** Shine" Matthew 5:16

**Headteacher:** Mr K Robinson BSc (Hons), NPQH

**Deputy Headteacher:** Mrs S Dring MA, BA (Hons)



## Science Curriculum

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Nursery</b>	<b>Ourselves</b> Similarities and differences	<b>Seasons</b> How the seasons change. Focusing on autumn.	<b>Water</b> <ul style="list-style-type: none"> <li>Melting ice</li> <li>How water is used</li> <li>Floating and sinking</li> </ul>	<b>Zoo animals</b> What animals live in zoos. What do they eat	<b>Life cycles</b> <ul style="list-style-type: none"> <li>Duck life cycle</li> <li>Growing and planting beanstalks</li> </ul>	<b>Journeys</b> <ul style="list-style-type: none"> <li>Push and pull</li> </ul>
<b>Reception</b>	<b>Friendship</b> The human body: Facial features, body parts, the senses	<b>The Park</b> Seasons of the year; Autumn. Deciduous and evergreen trees. Observing leaves using magnifying glasses, leaves changing colour.  Seasons of the year:  Winter. Animal hibernation, why do some animals hibernate? How do other animals survive winter?  Transport in the winter; snow ploughs, gritting roads, snow tyres.	<b>Water</b> Our planet Earth, land and sea, plants and animals, weather,  Seasons of the year: Spring. The first signs of spring; snowdrops, cherry blossom, buds and flowers, birds nesting, bees, lighter evenings.	<b>Creatures from the Past</b> Plants; how they grow from seeds and bulbs. What plants need to grow. Identify parts of plants including roots, stem and leaves. Identify trees and plants growing locally on the school grounds or in local parks. Draw pictures of local plants.  Design a garden for the Queen; what could we grow? What would we include? Sketch some ideas and write about the design.	<b>Life Cycles</b> Growing and changing; how people change as they grow, how animals change as they grow. Life cycles of a butterfly and/or frog. Identify and draw the following animals and their babies including but not limited to: <ul style="list-style-type: none"> <li>Sheep and Lamb</li> <li>Cows and Calf</li> <li>Horse and foal</li> <li>Butterfly and Caterpillar</li> <li>Frog and tadpole</li> <li>Dog and puppy</li> <li>Cat and kitten</li> </ul>	<b>Journeys</b> <ul style="list-style-type: none"> <li>Forces: push, pull, twist</li> <li>Air transport</li> <li>Water transport</li> <li>Seasons of the Year: Summer. How we stay safe in the sun; sunscreen, hats, sunglasses. Safety around water.</li> <li>Changing state of matter; Why do our ice lollies melt?</li> </ul>

# Leigh St Peter's CE Primary School

"Let Your **LIGHT** Shine" Matthew 5:16

**Headteacher:** Mr K Robinson BSc (Hons), NPQH

**Deputy Headteacher:** Mrs S Dring MA, BA (Hons)



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
		<p>Changing state of matter; frost and ice- looking closely at ice, what happens when it warms? Why can we see our breath when it is cold?</p>			<p>Seasons of the Year:</p> <ul style="list-style-type: none"> <li>▪ Summer. Signs of summer; flowers, warmer days, light evenings, butterflies, bees, birds.</li> <li>▪</li> </ul>	
<b>Year 1</b>	<p><b>The Human Body</b> Naming parts of the body, the five senses and associated body parts, understanding sensory impairment.</p> <ol style="list-style-type: none"> <li>1. Introduction to Our Body and Our Senses</li> <li>2. Eyes and Sight</li> <li>3. Ears and Hearing</li> <li>4. Touch, Taste and Smell</li> <li>5. Understanding Sensory Impairment</li> </ol>	<p><b>Animals and their Needs</b> Living things, naming animals, grouping animals, describing animals, how plants and animals obtain food, offspring, caring for animal babies, caring for pets.</p> <ol style="list-style-type: none"> <li>1. Common Animals</li> <li>2. Grouping Animals: Fish, Amphibians, Reptiles, Birds and Mammals</li> <li>3. Grouping Animals: Carnivores, Herbivores and Omnivores</li> <li>4. Animals as pets</li> <li>5. Describing Animals</li> </ol>	<p><b>Seasons and Weather</b> The four seasons, tools to record the weather, daily weather and weather forecasts, weather symbols, weather around the world, floods and hurricanes.</p> <ol style="list-style-type: none"> <li>1. The Four Seasons</li> <li>2. Tools to Record the Weather</li> <li>3. Using a graph to show information about the weather</li> <li>4. Clouds: cirrus, cumulus and stratus</li> <li>5. Weather Forecasting</li> </ol>		<p><b>Plants</b> What plants need to grow, the parts and functions of plants, food production, flowers and seeds, deciduous and evergreen.</p> <ol style="list-style-type: none"> <li>1. What Plants Need</li> <li>2. Parts of Plants</li> <li>3. Seeds</li> <li>4. Deciduous and Evergreen Plants</li> <li>5. Plants We Eat</li> </ol>	<p><b>Materials and Magnets</b> Classification of materials, magnets, magnetic attraction</p> <ol style="list-style-type: none"> <li>1. Everyday Materials</li> <li>2. Properties of Materials</li> <li>3. Uses of Materials</li> <li>4. Magnets</li> <li>5. Investigation</li> </ol>

# Leigh St Peter's CE Primary School

"Let Your **LIGHT** Shine" Matthew 5:16

**Headteacher:** Mr K Robinson BSc (Hons), NPQH

**Deputy Headteacher:** Mrs S Dring MA, BA (Hons)



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Year 2</b>	<p><b>The Human Body</b> The skeletal and muscular systems, exercise, digestive system and healthy eating, circulatory system, preventing illness, germs and disease, animals and their offspring.</p> <ol style="list-style-type: none"> <li>Survival and Offspring</li> <li>The Skeletal System, The Muscular System and Exercise</li> <li>The Digestive system and Healthy Eating</li> <li>The Circulatory system</li> <li>Germs, Diseases and Preventing Illness</li> </ol>	<p><b>Living Things in their Environments</b> Habitats: rainforest, desert, meadow and underground habitats. Food chains, oceans and undersea habitats, deep ocean habitats and habitat destruction and damage.</p> <ol style="list-style-type: none"> <li>Dead or Alive</li> <li>What is a habitat?</li> <li>Rainforest and Desert Habitats</li> <li>Meadow habitats</li> <li>Underground habitats</li> </ol>		<p><b>Plants</b> Seeds and bulbs, plants and water, light, temperature, healthy plants.</p> <ol style="list-style-type: none"> <li>Plants around us</li> <li>Seeds and bulbs</li> <li>Comparative Test 1</li> <li>Comparative Test 2</li> <li>Food and Farming</li> </ol>	<p><b>Materials and Matter</b> Comparing materials, changing materials, concepts of atoms, matter, solids, liquids, gases, measurements</p> <ol style="list-style-type: none"> <li>Materials and Their Uses</li> <li>George de Mestral and Velcro</li> <li>Matter Under the Microscope</li> <li>Changing Solid Objects</li> <li>Liquids and Their Properties</li> </ol>	

# Leigh St Peter's CE Primary School

"Let Your **LIGHT** Shine" Matthew 5:16

**Headteacher:** Mr K Robinson BSc (Hons), NPQH

**Deputy Headteacher:** Mrs S Dring MA, BA (Hons)



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Year 3</b>	<p><b>The Human Body</b> The digestive system, teeth and senses, a healthy diet, nutrition, vitamins and minerals, skeletons and muscles for support, protection and movement.</p> <ol style="list-style-type: none"> <li>The Muscular System</li> <li>The Skeletal System</li> <li>The Nervous System</li> <li>Nutrition</li> <li>The Digestive System</li> </ol>	<p><b>Cycles in Nature</b> Seasonal cycles and plants, animal migration. Life cycles of a plant and a frog.</p> <ol style="list-style-type: none"> <li>The Four Seasons</li> <li>Seasonal Cycles in Plants</li> <li>Life Cycle of a Plant</li> <li>Animal Migration</li> <li>Life Cycle of a Frog</li> </ol>	<p><b>Light</b> How light travels, shadows, transparent and opaque objects, reflection, mirrors: plane, concave, convex, how shadows change throughout the day.</p> <ol style="list-style-type: none"> <li>Light and Dark</li> <li>Transparent &amp; Opaque</li> <li>Mirrors &amp; Reflection</li> <li>Shadows</li> <li>Finding Patterns in Changing Shadows</li> </ol>	<p><b>Plants</b> Functions of plants: roots, stem/trunk, leaves and flowers, Life and growth, variety of plants, water transportation, seed formation and dispersal.</p> <ol style="list-style-type: none"> <li>Botany and Flowering Plants</li> <li>Requirements for Life and Growth</li> <li>Water Transportation in Plants</li> <li>Pollination in Flowering Plants</li> <li>Seed Dispersal</li> </ol>	<p><b>Rocks</b> Sorting rocks, how rocks are formed, hardness and permeability, fossils, soil.</p> <ol style="list-style-type: none"> <li>Sorting Rocks</li> <li>How Rocks are Formed</li> <li>Permeability</li> <li>Fossils</li> <li>Soil</li> </ol>	<p><b>Forces and Magnets</b> Forces, friction, magnets, magnetic poles, magnetic fields, law of magnetic attraction, compasses.</p> <ol style="list-style-type: none"> <li>Forces (Gravity)</li> <li>Friction</li> <li>Magnet</li> <li>Magnetic Poles and Fields</li> <li>Investigating the Strength of Magnets</li> </ol>

# Leigh St Peter's CE Primary School

"Let Your **LIGHT** Shine" Matthew 5:16

**Headteacher:** Mr K Robinson BSc (Hons), NPQH

**Deputy Headteacher:** Mrs S Dring MA, BA (Hons)



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Year 4</b>	<p><b>The Human Body</b></p> <p>The muscular system, the skeletal system, the nervous system, the digestive system, teeth.</p> <p><b>Lesson 5 needs to be removed</b></p> <ol style="list-style-type: none"> <li>1. Cells and Nutrients</li> <li>2. Teeth and Senses</li> <li>3. Digestion</li> <li>4. Preparing to Eat</li> </ol>	<p><b>Classification of Plants and Animals</b> Cold-blooded or warmblooded, vertebrates or invertebrates, characteristics of animal classes, classification of plants.</p> <ol style="list-style-type: none"> <li>1. Introduction to Classification</li> <li>2. Classes of Vertebrates: Fish and Amphibians</li> <li>3. Classes of Vertebrates: Reptiles, Birds and Mammals</li> <li>4. Classes of Invertebrates: Insects, Arachnids and Molluscs</li> <li>5. Classification of Plants</li> </ol>	<p><b>Ecology</b></p> <p>Habitats, interdependence of organisms and their environment, producers, consumers and decomposers, food webs, producers, predators and prey, human threats to the environment.</p> <ol style="list-style-type: none"> <li>1. Living Things and Habitats</li> <li>2. Natural Cycles</li> <li>3. Web of Living Things</li> <li>4. Air Pollution: A Human Threat to the Environment</li> <li>5. Ecology in our Local Area</li> </ol>	<p><b>Sound</b></p> <p>How sound is created, how sound travels, sound waves, speed of sound, pitch, intensity, the human voice, hearing, the human ear</p> <ol style="list-style-type: none"> <li>1. What is Sound?</li> <li>2. Speed of Sound</li> <li>3. Qualities of Sound – Pitch and Volume</li> <li>4. Human Voice</li> <li>5. Ears - How We Hear</li> </ol>	<p><b>States of Matter and the Water Cycle</b></p> <p>Change of state, evaporation, condensation, precipitation, humidity, groundwater.</p> <ol style="list-style-type: none"> <li>1. States of Matter</li> <li>2. Evaporation</li> <li>3. Condensation</li> <li>4. Precipitation</li> <li>5. The Water Cycle</li> </ol>	<p><b>Electricity</b></p> <p>Electric current, circuits, switches, conductors and insulators.</p> <ol style="list-style-type: none"> <li>1. Electrical Safety</li> <li>2. Parts of a circuit</li> <li>3. Switches</li> <li>4. Thomas Edison and Lewis Latimer</li> <li>5. Investigating Conductive and Non-Conductive Materials</li> </ol>

# Leigh St Peter's CE Primary School

"Let Your **LIGHT** Shine" Matthew 5:16

**Headteacher:** Mr K Robinson BSc (Hons), NPQH

**Deputy Headteacher:** Mrs S Dring MA, BA (Hons)



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Year 5</b>	<p><b>The Human Body:</b> Human growth stages, adolescence and puberty, The human reproductive system, The endocrine system.</p> <ol style="list-style-type: none"> <li>Gestation and Infancy</li> <li>Adolescence and Puberty</li> <li>Slowing Down</li> <li>Growth in Humans and Animals</li> <li>Preparation for Assessment (Research and Scientific Drawing)</li> </ol>	<p><b>Materials</b> Properties- solubility, conductivity, flexibility, fair testing, solubility, separation of mixtures, reversible changes dissolving, mixing, change of state.</p> <ol style="list-style-type: none"> <li>Properties of Materials</li> <li>Which material is best?</li> <li>Solubility - which materials are most soluble/what solubility means</li> <li>Separating Mixtures - sieving, filtering, evaporating</li> <li>Reversible Changes - dissolving, mixing, change of state</li> </ol>	<p><b>Living Things</b> Life cycles of a mammal, an amphibian, an insect and a bird, life process of reproduction in some plants and animals, Photosynthesis, vascular and non-vascular plants.</p> <ol style="list-style-type: none"> <li>Life Cycles of Plants and Animals in Our Local Area</li> <li>Life Cycles of Mammals and Amphibians</li> <li>Life Cycles of Insects and Birds</li> <li>Reproduction in Plants The Work of David Attenborough and Jane Goodall</li> <li>David Attenborough and Jane Goodall</li> </ol>	<p><b>Forces</b> Gravity, friction, air resistance, water resistance, pulleys, gears and levers.</p> <ol style="list-style-type: none"> <li>Forces including Gravity</li> <li>Air Resistance, Water Resistance and Friction</li> <li>Guided Investigation: Paper Drop</li> <li>Guided investigation: Paper Drop</li> <li>Pulleys, Gears and Levers</li> </ol>	<p><b>Astronomy</b> The Big Bang theory, gravity, the Universe, our Solar System, the moon and our galactic neighbourhood.</p> <ol style="list-style-type: none"> <li>The Big Bang and the Expanding Universe</li> <li>Gravity</li> <li>Our Solar System</li> <li>The Moon</li> <li>Our Galactic Neighbourhood</li> </ol>	

# Leigh St Peter's CE Primary School

"Let Your **LIGHT** Shine" Matthew 5:16

**Headteacher:** Mr K Robinson BSc (Hons), NPQH

**Deputy Headteacher:** Mrs S Dring MA, BA (Hons)



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Year 6</b>	<p><b>The Human Body</b></p> <p>The circulatory system, the heart, the blood vessels, the blood, blood pressure and heart rate, changes to humans as we get older</p> <ol style="list-style-type: none"> <li>1. The Heart: Circulation of the Blood</li> <li>2. Blood Vessels and Transport</li> <li>3. Blood Pressure and Heart Rate</li> <li>4. Heart Rate - An Investigation</li> <li>5. Heart Rate - An Investigation</li> </ol>	<p><b>Classification of Living Things</b></p> <p>Classifying organisms, plant and animal cells, fungi, protists, monera, taxonomy, Latin names, vertebrates.</p> <ol style="list-style-type: none"> <li>1. Classifying Organisms</li> <li>2. Cells: Plant and Animal cells</li> <li>3. Taxonomy</li> <li>4. Vertebrates</li> <li>5. Invertebrates</li> </ol>	<p><b>Electricity</b></p> <p>Brightness, buzzers, voltage, switches, simple circuits and symbols</p> <ol style="list-style-type: none"> <li>1. Simple Series Circuits</li> <li>2. Voltage</li> <li>3. Switches</li> <li>4. Planning an Investigation</li> <li>5. Investigation</li> </ol>	<p><b>Light</b></p> <p>How light travels, Our eyes, light sources, shadows, periscopes</p> <ol style="list-style-type: none"> <li>1. How Light Travels</li> <li>2. How We See</li> <li>3. Shadows and Their Shapes</li> <li>4. The Colour of Light</li> <li>5. Making a Periscope</li> </ol>		<p><b>Evolution</b></p> <p>Fossils, adaptation, characteristics passing through generations, Mary Anning, Alfred Wallace, Charles Darwin, Darwin's sketches of finches.</p> <ol style="list-style-type: none"> <li>1. Fossils</li> <li>2. Inheritance</li> <li>3. Adaptation</li> <li>4. Charles Darwin</li> <li>5. Alfred Wallace</li> </ol>