

# **Corporation Road Community Primary School**

## **Science LTP**

Science: Year 1/2A				
Vision: At Corporation Road, we believe that by studying science, children will develop a sense of the wor collaborative skills that they will continue to use as they grow older. Our curriculum aims to teach	our pupils abou	n and how it works. We aim to use science as a tool to help children work together and begin to build the ut the natural world as well as imparting the knowledge that they can take into their secondary education. riences and 'hands on' learning', children will be better prepared to retain the knowledge and skills that they		
Domains	Key Concepts			
Earth and Space	Identifying and Naming, Moons, Spherical Bodies, Day and Night, Day Length and the Seasons,			
Light and Sound	Identifying and Naming. Phenomena, Physical Processes, Classifying, Comparing and Safety			
Seasonal Changes	Identifying and Naming, Effects of the Weather, Recording the Weather, The Seasons and Day Length			
Forces	Identifying and Naming, Physical Processes, Phenomena, Testing, Comparing and Classification			
Electricity	Identifying and Naming, Series Circuits, Circuit Symbols, Current and Voltage, Conductors and Insulators and Safety			
Substance, Matter and Materials	_	and Naming, Classification, Uses, Physical Processes, Physical Properties and Comparisons		
Plants	Identifying and Naming, Classification, Plant Parts and Their Functions, Habitats and Adaptation, Growth and Survival, Life Cycles, Seasonal Changes and Comparisons			
Animals Including Humans	Identifying and Naming, Classification, Habitats, Adaptation and Interdependence, Growth, Health and Survival, Diet and Teeth, The Body, Life Cycles and Comparing			
Evolution and Inheritance	Identifying and Naming, Inheritance, Evolution, Adaptation, Fossils and The Future			
Working Scientifically	Asking and Answering Questions, Investigating, Observing, Equipment and Measuring, Identifying and Classifying, Recording and Reporting on Findings, Analysing Data and Drawing Conclusions			
Ongoi	ng (beginning/	end of each term)		
	Domain: Seaso	nal Changes		
Key Concepts:  - Identifying and Naming  - Effects of Weather  - Recording the Weather  - The Seasons  - Day Length		End Point:  Physics  The end-point for physics is that children know that it is the study of things around them as well as energy and forces. Children should name and be able to identify the eight planets of the solar system. From their learning, children will understand the force of gravity and as well as how other forces work on objects moving through the air, water and along a surface. Our children will learn how to create simple circuits an understand key terms such as current and voltage. Finally, children will have a working understanding of light and sound.		
Year 1		Year 2		
<ul> <li>Name a range of different types of weather from pictures or sounds.</li> <li>Describe some positive and negative effects of the weather for ourselves and our environment.</li> <li>Observe and record the daily weather on a chart or in a table.</li> <li>Broadly assign different weather types to seasons.</li> <li>Describe how day length changes over a year, from experience and know how it affects their lives.</li> </ul>		Identify less familiar weather conditions that are more common in other parts of the world.  Explain how and why the weather influences our choice of clothing and affects what we can do.  Identify patterns and similarities and differences within recorded weather over a given period of time.  Explain how animals or plants are affected by the seasons, using a specific animal or plant as an example.  Make comparisons to other parts of the world where day length changes to a greater or lesser degree, such as Arctic or equatorial regions.  Domain: Working Scientifically		
		Key Concepts:		

Investigating

- Identifying and Classifying
- Recording and Reporting on Findings
- Analysing Data
- Drawing Conclusions

### **End Point:**

### **Working Scientifically**

The end-point for working scientifically involves the children being able to apply a number of skills when completing an experiment or an investigation independently. These skills involve the children being able to take accurate measurements when using different scientific equipment. When explaining their findings, children should be able to use the correct scientific language to demonstrate their understanding. For children to develop as scientists, they will be able to identify the dependent and independent variables and understand what these terms means. Finally, they will be able to have the knowledge and ability to record data and results using the appropriate recording tool.

	data and results using the appropriate recording tool.  - Observe something closely and describe changes over time.						
Autumn		Spring	Summer				
		Domain: Substance, Matter and Materials	Domain: Plants				
Classification  Habitats, Adaptation and Interdependence Growth, Health and Survival Diet and Teeth The Body Life Cycles Comparing  End Point:  Biology The end-point for biology at Corporation Road is for our children to understand that it is the study of life and living things. We want our children to be able to name a range of animals and plant life from their local environment but also the wider world. Building upon this, children will also be able to know the difference between vertebrates and invertebrates and be able to identify them and their features. Additionally, through their studies, children should understand the concept of adaption and why it is important for a species to survive. Finally, we want our children to understand evolution and be able to give examples where this has taken place in an animal or plant		Classification	Rey Concepts:  Identifying and Naming Classification Plant Parts and Their Functions Habitats and Adaptation Growth and Survival Life Cycles Seasonal Changes Comparisons  End Point: Biology The end-point for biology at Corporation Road is for our children to understand that it is the study of life and living things. We want our children to be able to name a range of animals and plant life from their local environment but also the wider world. Building upon this, children will also be able to know the difference between vertebrates and invertebrates and be able to identify them and their features. Additionally, through their studies, children should understand the concept of adaption and why it is important for a species to survive. Finally, we want our children to understand evolution and be able to give examples where this has taken place in an animal or plant				
<ul> <li>Year 1</li> <li>Identify and name a range of common animals from the local and wider environment.</li> <li>Classify and sort familiar animals according to whether they are invertebrates, fish, amphibians, reptiles, birds or mammals.</li> <li>Name animals living in a range of familiar environments, such as their homes, woodland or school grounds.</li> <li>Explain how to take care of an animal from the local habitat.</li> <li>Identify whether an animal is a carnivore, herbivore or omnivore and how we might know this from their physical appearance.</li> <li>Draw and label basic parts of the human body, including those related to the senses.</li> </ul>	Name and match animals to their offspring.     Sort and classify things according to whether they are dead, alive or have never been alive.     Define the terms 'habitat' and 'micro-habitat', giving examples of animals that live in each place.     Identify the basic needs of animals and humans for survival, including good nutrition and regular exercise.     Construct a simple food chain that includes humans as the top consumer.     Explain simply how humans and some familiar animals change as they grow.     Recognise the need for animals and humans to grow and reproduce. Describe the life cycles of some common animals and humans.	<ul> <li>Vear 1</li> <li>Name a range of everyday materials, including wood, plastic, metal, rock and glass.</li> <li>Group and sort materials according to their simple physical properties.</li> <li>Identify the material an object is made from, suggesting why it is made from that material.</li> <li>Identify some materials that help physical processes (e.g. woollen fabric keeps us warm).</li> <li>Describe properties of a material using everyday language or simple scientific vocabulary (e.g. hard/soft or bendy/not bendy).</li> <li>Compare two or more different materials for their performance at a particular task (e.g. mopping up a spill).</li> <li>Year 2</li> <li>Identify the uses of everyday materials in a familiar location (e.g. school or home), recording their findings.</li> <li>Sort and grade a range of materials for a specific property (e.g. smoothness).</li> <li>Identify and describe the range of materials that can be used to make a single given object (e.g. cup, chair, table or shelter).</li> <li>Describe how the shape of some materials can be changed by twisting, bending, squashing or stretching.</li> <li>Relate a material's physical properties to its uses (e.g. describe or demonstrate how a material can be unsuitable for a given task due to its ability to be changed by squashing and bending).</li> </ul>	seeds and trunk. example rhubarb (stem), carrot (root).				

familiar animal such as a frog, butterfly or human.  - Compare animals that are kept as pets, knowing which group they belong to.	<ul> <li>Compare the living things in familiar habitats with the living things in a less familiar habitat.</li> </ul>		<ul> <li>Compare significant individuals who have developed useful materials (e.g. Charles Macintosh or John Dunlop) and decide which individual's material is of most use to them.</li> </ul>	<ul> <li>Name, compare and contrast familiar plants according to their observable features.</li> </ul>	<ul> <li>Make comparisons between seeds or bulbs grown in different conditions (e.g. with and without light or water).</li> </ul>
		Domain: Worl	king Scientifically		
Key Concepts:  Asking and Answering Questions Investigating Observing Identifying and Classifying Recording and Reporting on Findings Analysing Data Drawing Conclusions	<ul> <li>Key Concepts:</li> <li>Asking and Answering     Questions</li> <li>Investigating</li> <li>Identifying and Classifying</li> <li>Recording and Reporting on     Findings</li> <li>Drawing Conclusions</li> </ul>	Key Concepts:  - Asking and Answering    Questions  - Investigating  - Observing  - Equipment and Measuring    Identifying and Classifying    Recording and Reporting on Findings  - Analysing Data    Drawing Conclusions	Key Concepts:  - Asking and Answering     Questions  - Investigating - Equipment and Measuring - Identifying and Classifying - Recording and Reporting on Findings - Drawing Conclusions	Key Concepts:  - Asking and Answering     Questions  - Investigating  - Observing  - Identifying and Classifying     Recording and Reporting on     Findings  - Analysing Data - Drawing Conclusions	<ul> <li>Key Concepts:</li> <li>Asking and Answering     Questions</li> <li>Investigating</li> <li>Identifying and Classifying</li> <li>Recording and Reporting on     Findings</li> <li>Analysing Data</li> <li>Drawing Conclusions</li> </ul>
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# COMMUNITY PRIMARY SCHOOL

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