

Glenthorne Community Primary School

Science Investigations

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	<p>Animals including humans - Ourselves</p> <p>Exploring senses through 5 stations carousel activity.</p>	<p>Animals including humans - Our pets</p>	<p>Everyday materials - Let's build</p> <p>Testing properties of materials - waterproof, heatproof, strength (building 3 little pigs a house).</p>	<p>Everyday materials - Marvellous materials</p>	<p>Seasonal changes - Wonderful weather</p>	<p>Plants - What's growing in our garden?</p> <p>Observing changes in plants as they grow.</p>
Year 2	<p>Animals including humans - Healthy animals</p> <p>Investigating heart rate through comparing difference between rest/during/after exercise.</p>	<p>Living things and their habitats - Habitats</p>	<p>Everyday materials - Materials matter</p> <p>Investigating absorption of different materials (measuring how long it takes for water to travel to a marked point on the material).</p> <p>Investigating absorption of materials through dropping water onto a material and seeing how much travels</p>	<p>Everyday materials - Squash, bend, twist, stretch</p>	<p>Living things and their habitats - Gardens and allotments</p>	<p>Plants - Ready, steady, grow!</p> <p>Observing changes in plants as they grow.</p>

			<p>through the material.</p> <p>Investigating how some material don't mix when put together (e.g. wax and water).</p>			
Year 3	<p><b>Animals including humans - Keeping healthy</b></p> <p>Investigating how much sugar is in a range of drinks and comparing results.</p>	<p><b>Light - Light and shadows</b></p> <p>Using mirrors to show how images are reflected 'backwards'.</p> <p>Shining torches on to coloured card to see different colours reflected back on to white card. Black card was used to show black absorbs colour rather than reflects.</p> <p>Shadow investigation - moving objects closer and further from light source to show how shadow can change size.</p>	<p><b>Rocks - Rocks and fossils</b></p> <p>Testing different rocks - permeability, durability, density (using rock samples from school set).</p> <p>Making fossils - investigating how pressure can leave mould patterns in salt dough.</p>	<p><b>Forces and magnets - Amazing magnets!</b></p> <p>Testing magnet strength - using different magnets to attract paper clips. The more paper clips 'held' by the magnet, the stronger the magnet is.</p> <p>Testing friction using a toy car and a ramp covered in different materials - the ramp is lifted until the car starts moving. The higher the ramp can be lifted, the more friction from the material.</p>	<p><b>Plants - Roots and shoots</b></p> <p>Investigating how well plants grow under different conditions (warmth, light, water etc.) compared to a control. Observations made include visual and measured.</p>	<p><b>Plants - Artful flowers, fruits and seeds</b></p>

<p><i>Year 4</i></p>	<p>Electricity - It's electricity</p> <p>Circuits - investigating reasons why some circuits will not work (understanding the need for circuits to be complete).</p>	<p>States of matter - States of matter scientists</p> <p>Ice cubes - coloured ice cubes combined in a glass, children predict what will happen over time.</p> <p>Heating and cooling - children use chocolate to demonstrate changing in state from solid to liquid and back again.</p> <p>Measuring changes in temperature of the classroom throughout the day.</p>	<p>Sound - Listen up!</p> <p>Origin of sound - blindfolded child identifies where sound is coming from.</p> <p>Drum and rice experiment - loud/quiet sounds made and compare difference in the movement of the rice.</p>	<p>Living things and their habitats - Name that living thing</p>	<p>Animals including humans - Excuse me, are these your teeth?</p> <p>Digestive system model - investigating how food travels through the digestive system and how it changes through the process.</p>	<p>Living things and their habitats - Help our habitats</p>
<p><i>Year 5</i></p>	<p>Earth and space - Space presenters</p> <p>Shadows - investigated how shadows change in size throughout the day depending on the position of the sun.</p>	<p>Forces - May the force be with you</p> <p>Gravity/air resistance investigation using parachutes and different materials to see what affects these forces.</p>	<p>Properties of materials - Music festival materials</p> <p>Material properties - hardness, smoothness and absorbency tested and compared for suitability for different uses.</p>	<p>Changing materials - Changing materials education pack</p>	<p>Living things and their habitats - The art of living</p>	<p>Animals including humans - Life explorers</p>

		<p>Water resistance investigation - how can changing the size and shape of a boat affect this force?</p> <p>Investigating buoyancy through changing water types.</p>				
Year 6	<p>Light - Crime Lab investigation</p> <p>Refraction- jar and pencil investigation- seeing how light 'bends'.</p> <p>Flour investigation- seeing how light travels in straight lines.</p> <p>Investigating colour mixing.</p> <p>Investigating how distance from light source changes the size of an object's shadow.</p>	<p>Electricity - Electric Celebrations</p> <p>Investigating which objects/materials are conductors or insulators in a circuit.</p> <p>Investigation into how the brightness of a bulb can change when changing the number of components in circuits.</p> <p>Effects of dimmer switches in circuits.</p>	<p>Living things and their habitats - Classification connoisseurs</p> <p>Classification - classifying sweets depending on their different properties.</p>	<p>Evolution and inheritance - The game of survival</p>	<p>Animals including humans - The art of being human</p>	<p>Human reproduction and relationships</p> <p>Second look Science - The Science of Sport</p>