

**The Sultan's School Year 2 Medium Term Curriculum Plan for Science 2017- 18**

Block	Unit	Key Targets and Learning Objectives	Key Activities	Key vocabulary
1	Living Things	<ul style="list-style-type: none"> <li>➤ Identify similarities and differences between local environments and know about some of the ways in which these affect the animals and plants that are found there.</li> <li>➤ Understand ways to care for the environment.</li> <li>➤ Observe and talk about their observation of the weather, recording reports of weather data.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Describe and compare different environments.</li> <li>➤ Identify plants and animals found in different environments.</li> <li>➤ Investigate local plants.</li> <li>➤ Discuss how an environment meets and animals needs.</li> <li>➤ Draw pictures which represent different weather conditions.</li> <li>➤ Prepare short weather reports.</li> </ul> <div style="background-color: #00b050; color: white; padding: 5px; margin-top: 10px;"> <p><b>Going Green Link:</b> Investigate the plants and animals in the local environment, e.g. school playground, local park or backyard at home.</p> </div>	Environment Natural Local Built Conditions Cold Wet Hot Dry Suited Adapted Investigation Observe Record Reduce Reuse Recycle Weather Conditions Report Forecast Observe
2	Electricity	<ul style="list-style-type: none"> <li>➤ Recognise the components of simple circuits involving cells (batteries)</li> <li>➤ Know how a switch can be used to break a circuit.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Build simple circuits.</li> <li>➤ Name the components of a circuit.</li> <li>➤ Observe different circuits and predict whether they will work or not.</li> <li>➤ Explore when we uses switches.</li> </ul>	Circuit Battery Components Bulb Connect Switch

			<p><b>Going Green Link:</b> Discuss ways to save electricity at home, e.g. by switching off the AC /lights when you leave the house.</p>	Break
3	The Earth and Beyond	<ul style="list-style-type: none"> <li>➤ Explore how the Sun <i>appears</i> to move during the day and how shadows change.</li> <li>➤ Model how the spin of the Earth leads to day and night, e.g. with different sized balls and a torch.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Look at photographs of earth, identify land and sea.</li> <li>➤ Locate Oman on a globe and explore what happens to our view of the sun as the earth spins.</li> <li>➤ Use a torch and a globe to test out why we have day and night.</li> </ul> <p><b>Going Green Link:</b> Identify which planets humans can survive on and the reasons why. Discuss how we can take care of the Earth.</p>	Earth Sun Star Sunrise Sunset Shadow Day Night Model
4	Light and Dark	<ul style="list-style-type: none"> <li>➤ Identify different light sources including the Sun.</li> <li>➤ Know that darkness is the absence of light.</li> <li>➤ Be able to identify shadows.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Identify whether light sources are 'natural' or 'human-made'.</li> <li>➤ Investigate whether we need light to see things.</li> <li>➤ Explore whether all shadows are the same.</li> </ul> <p><b>Going Green Link:</b> Identify the most energy efficient light sources, e.g. energy efficient light bulbs.</p>	Sources Natural Sunlight Light Dark Darkness Shadow Light source

5	<p style="text-align: center;"><b>Material Properties and Changes</b></p>	<ul style="list-style-type: none"> <li>➤ Recognise some types of rocks and the uses of different rocks.</li> <li>➤ Know that some materials occur naturally and other are manufactured.</li> <li>➤ Know how the shapes of some materials can be changed by squashing, bending, twisting and/or stretching.</li> <li>➤ Explore and describe the way some everyday materials change when they are heated or cooled.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Describe the appearance of different rock samples.</li> <li>➤ Search for rocks being used around the school.</li> <li>➤ Identify objects which are 'natural' and objects which are 'manufactured'.</li> <li>➤ Explore forces using modeling clay.</li> <li>➤ Test the flexibility of different materials.</li> <li>➤ Investigate how to make an object melt quicker.</li> </ul> <p><b>Going Green Link:</b> Identify natural materials from animals which are not environmentally friendly/conscious choices, e.g. leather, horns and fur. Discuss alternatives.</p>	<p>Hard Soft Fair test Properties Natural Materials Manufactured Squash Twist Shape Bend Stretch Flexible Rigid Cool Solid Heated Melt Elastic Dissolve Test</p>
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