

Growth through Jesus' love so that we can learn, persevere, achieve, and bear fruit together.



Science Curriculum

Year 1 – 6 – Spring/Summer 2022

<u>Year Group</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer 1</u>	<u>Summer 2</u>
1	<p><u>Plants</u></p> <ol style="list-style-type: none"> 1. What is the role of a seed? 2. What is seed dispersal? 3. What do plants need to be healthy? 4. Will my plants grow? 5. How do bulbs mature into plants? 6. Has my plant grown? 	<p><u>Humans</u></p> <ol style="list-style-type: none"> 1. Are we the same? 2. Where are my 5 senses? 3. What can you feel? 4. What can you taste? 5. What can you smell? 6. How can we awaken our senses? 	<p><u>Animals</u></p> <ol style="list-style-type: none"> 1. What are you? 2. What makes you, you? (over several weeks) 3. Can you be grouped? 4. What do you eat? 5. What lives in our environment? 	
2	<p><u>Materials</u></p> <ol style="list-style-type: none"> 1. How can different materials be used to make an object? 2. Investigating malleable materials e.g. plasticine 3. Using different materials for a particular purpose 4. Designing objects based on appropriate materials 	<p><u>Living things and Habitats</u></p> <ol style="list-style-type: none"> 1. Alive, no longer living or never alive? 2. What is a habitat? 3. What is a microhabitat? 4. How are living things suited to their environment? 5. How do animals depend on their habitats? (food chains) 6. What do bugs need? 	<p><u>Animals including humans</u></p> <ol style="list-style-type: none"> 1. What makes a family? 2. Are all young children the same? 3. What are offspring? 4. Scenario: A large wave has destroyed a habitat and you need to find a way for the owners to survive. 5. Scenario: Humans are on a mission to the moon – how will they survive? 6. Rights Respecting Article 24: <i>‘every child has the right to the best possible health’</i> – what is the best possible health? 	
3	<p><u>Plants</u></p> <ol style="list-style-type: none"> 1. What do the different parts of 	<p><u>Forces</u></p> <ol style="list-style-type: none"> 1. How do forces work? 	<p><u>Rocks</u></p> <ol style="list-style-type: none"> 1. What is soil made from? 	<p><u>Animals including humans</u></p> <ol style="list-style-type: none"> 1. Where do animals, including

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	<p>a flowering plant do? 2a. What do plants need to stay alive and grow? 2b. Do all plants needs the same thing to stay alive and grow? 3. How does water travel through a plant? 4. What is the role of flowers in the life cycle of flowering plant?</p>	<p>2. How do different surfaces effect the way an object moves on them? 3. How does a magnet work? 4. Which materials are attracted to magnets? 5. Can you use an enquiry questions to investigate magnets?</p>	<p>2. How can we group rocks based on their physical properties? 3. What types of rocks are there? 4. How is a fossil formed?</p>	<p>humans, get their nutrients from? 2. What is the role of nutrients in growth and development? 3. How do skeletons differ in living things? 4. Can we move without muscles? 5. What would happen if animals didn't have a skeleton?</p>
4	<p><u>Sounds</u></p> <ol style="list-style-type: none"> 1. How are sounds made? 2. How do we hear sound? 3. . What is pitch? 4. What do you notice about sound pitch and the object that produced the sound? 5. Do louder sounds produce stronger vibrations? 6. How does the ear work? 7. How does distance affect the volume of sound? 8. How do you sound proof something and insulate against sound? 	<p><u>States of Matter</u></p> <ol style="list-style-type: none"> 1. What is matter? 2. What kind of matter is this? 3. What matters when I turn up the heat? 4. How many states of matter can chocolate have? 5. How does the water cycle work? 6. How long would a snowman take to evaporate? OR Does washing dry faster on a windy day? 	<p><u>Animals including humans</u></p> <ol style="list-style-type: none"> 1. What can you tell me about your teeth? 2. How can I look after my teeth? 3. What is the role of the teeth in the digestive system? 4. Excuse me, are those your teeth? (comparing carnivores/herbivores) 5. How is energy transferred from animals to animal? 	
5	<p><u>Living things and their habitats</u></p>	<p><u>Earth and Space</u></p> <ol style="list-style-type: none"> 1. How did the universe 	<p><u>Animals including humans</u></p> <ol style="list-style-type: none"> 1. How long will it take to grow? 	

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	<ol style="list-style-type: none"> 1. What is the journey of pollen grains? 2. A broad bean investigation. 3. What are the different types of reproduction? 4. How does the lifecycle of an insect compare to an amphibian? 5. How do birds survive? 	<ol style="list-style-type: none"> 1. become? 2. What's in Space? 3. Why do we have day and night time? 4. How can you prove the Earth rotates? 	<ol style="list-style-type: none"> 2. Why do babies not stay as babies? 3. How do animals grow? 4. What is the same? What is different? Man vs. Chicken 5. Growing up
<p>6</p>	<p><u>Evolution and Inheritance</u></p> <ol style="list-style-type: none"> 1. What do we inherit? 2. What are mutations and adaptations? 3. How do animals adapt to extremes? 4. The scientists behind the science. 5. Evolutionary trees and fossils 6. How did these animals change...and what might happen next? 	<p><u>Classifying Organisms</u></p> <ol style="list-style-type: none"> 1. How can we group organisms based on their characteristics? 2. How can we distinguish between similar characteristics? 3. How can we classify plants according to their characteristics? 4. What are micro-organisms and how can they be grouped? 5. How can we classify organisms in the local area? 	<p><u>Healthy Bodies</u></p> <ol style="list-style-type: none"> 1. Why is a balanced diet so important? 2. What are the different food groups and why is a variety of food important? 3. How are nutrients and water transported in the human body? 4. What happens to the heart when we exercise and why? 5. How do muscles move the skeleton and how does movement increase blood flow? 6. What are the effects of tobacco, alcohol and other drugs?

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