



A united, caring community of learners









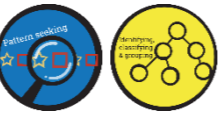





Science

Plymouth Science

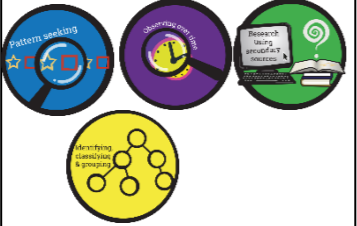
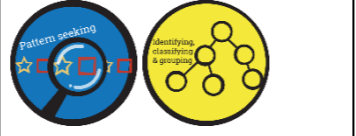








"In Science, we can inspire something...every discovery, however small is a permanent gain"

Pierre Curie














Science Curriculum Map: Autumn Term

Term	Nursery Nursery works in two cycles and uses different core stories to teach each area.	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn 1	<p>Settling in time. Focus on routines and rules.</p>	<p>All about me Knowledge & Understanding Focus: Identify the basic features on their faces. Name basic body parts.</p> 	<p>Animals including humans: Knowledge & Understanding Focus: What are the names for all the parts of our body?</p> 	<p>Living things and their habitats Knowledge & Understanding Focus: What is a habitat and why is it important to plants and animals?</p> 	<p>Rocks Knowledge & Understanding Focus: Are all rocks the same?</p> 	<p>Materials – States of matter: Knowledge & Understanding Focus: How can water change?</p> 	<p>Earth and Space Knowledge & Understanding Focus: Sun, Earth & Moon: What is moving and how do we know?</p> 	<p>Light Knowledge & Understanding Focus: Why do shadows have the same shape as the objects that cast them?</p> 
Autumn 2	<p>Seasonal changes Knowledge & Understanding Focus: Learn about the changes that happen during Autumn. Light and Dark: Knowledge & Understanding Focus: Talk about the differences between day and night.</p>	<p>Seasonal changes Knowledge & Understanding Focus: Observe what happens to the environment during Autumn. Celebrations: Knowledge & Understanding Focus: Observe changes to the world around them and discuss changes of state.</p> 	<p>Seasonal changes Knowledge & Understanding Focus: What is it like in Autumn? Animals including humans Knowledge & Understanding Focus: What is a carnivore, herbivore and omnivore?</p> 	<p>Materials Knowledge & Understanding Focus: Which materials are best to create my model?</p> 	<p>Forces & Magnets Knowledge & Understanding Focus: Which materials are magnetic and why?</p> 	<p>Sound Knowledge & Understanding Focus: How can we make different sounds?</p> 	<p>Forces Knowledge & Understanding Focus: How and why do objects move?</p> 	<p>Evolution and Inheritance Knowledge & Understanding Focus: What is evolution, how does it happen and how do scientists know?</p> 

Science Curriculum Map: Spring Term

<p>Spring 1</p>	<p>Seasonal changes Knowledge & Understanding Focus: Learn about the changes that happen during Winter.</p> <p>Materials Knowledge & Understanding Focus: Changing states of matter - snow and ice. Explore melting and freezing.</p>	<p>Seasonal changes Knowledge & Understanding Focus: Observe what happens to the environment during Winter.</p> <p>Animals Knowledge & Understanding Focus: Observe and find the similarities and differences of some animals. Understand that not all animals live in the same environments.</p> 	<p>Seasonal changes Knowledge & Understanding Focus: What is it like in Winter?</p> <p>Animals including humans Knowledge & Understanding Focus: Why are animals different?</p> 	<p>Animals including humans Knowledge & Understanding Focus: Why is exercise and eating right important?</p> 	<p>Animals, including humans Knowledge & Understanding Focus: Why are skeletons important?</p> 	<p>Animals including humans Knowledge & Understanding Focus: Why are teeth important?</p> 	<p>Animals including humans Knowledge & Understanding Focus: How do humans change across their lifetime?</p> 	<p>Animals including humans Knowledge & Understanding Focus: Why does my heart beat?</p> 
<p>Spring 2</p>	<p>Seasonal changes Knowledge & Understanding Focus: Learn about the changes that happen during Spring.</p> <p>Materials Knowledge & Understanding Focus: Explore collections of materials with similar or different properties. Talk about the differences they notice – linked to The Three Little Pigs and Three Billy Goats Gruff.</p>	<p>Under the sea Knowledge & Understanding Focus: Look at different habits of animals that live under the sea. Learn the features of different underwater animals.</p> 	<p>Plants Knowledge & Understanding Focus: What are the names of different plants?</p> 				<p>Properties & Changes of materials Knowledge & Understanding Focus: How can we change materials?</p> 	

Science Curriculum Map: Summer Term

<p>Summer 1</p>	<p><u>Plants and the environment:</u> <u>Knowledge & Understanding Focus:</u> Plant seeds and care for living plants. Learn what a plant needs to grow. Learn to respect and care for the environment.</p>	<p><u>Seasonal changes</u> <u>Knowledge & Understanding Focus:</u> Observe what happens to the environment during Spring.</p> <p><u>Everyday Materials</u> <u>Knowledge & Understanding Focus:</u> Notice simple properties of materials. I notice the difference in liquids and solids.</p> 	<p><u>Seasonal changes</u> <u>Knowledge & Understanding Focus:</u> What is it like in Spring?</p> <p><u>Everyday Materials</u> <u>Knowledge & Understanding Focus:</u> What are the properties of different materials?</p> 	<p><u>Plants</u> <u>Knowledge & Understanding Focus:</u> What is needed to make healthy plant grow?</p> 	<p><u>Plants</u> <u>Knowledge & Understanding Focus:</u> Why are plants important for life and growth?</p> 	<p><u>Electricity</u> <u>Knowledge & Understanding Focus:</u> What can we do with electricity?</p> 	<p><u>Properties & changes of materials</u> <u>Knowledge & Understanding Focus:</u> How can we change materials?</p> 	<p><u>Electricity</u> <u>Knowledge & Understanding Focus:</u> Can we vary the effects of electricity?</p> 
<p>Summer 2</p>	<p><u>Seasonal changes</u> <u>Knowledge & Understanding Focus:</u> Learn about the changes that happen during Summer.</p> <p><u>Forces and Magnets</u> <u>Knowledge & Understanding Focus:</u> Forces – Floating and sinking with boats and items in the Water tray. Explore magnets and sorting objects that are magnetic/non-magnetic.</p>	<p><u>Seasonal changes</u> <u>Knowledge & Understanding Focus:</u> Observe what happens to the environment during Summer.</p> <p><u>Keeping Healthy</u> <u>Knowledge & Understanding Focus:</u> Learn how to keep healthy and understand why it is important to be healthy.</p> 	<p><u>Seasonal changes</u> <u>Knowledge & Understanding Focus:</u> What is it like in Summer?</p> <p><u>Everyday Materials</u> <u>Knowledge & Understanding Focus:</u> What are the properties of different materials? Continued from Summer 1.</p> 	<p><u>Plastic Pollution</u> <u>Knowledge & Understanding Focus:</u> How can we protect our animals and habitats from plastic pollution?</p> 	<p><u>Light</u> <u>Knowledge & Understanding Focus:</u> How are shadows made?</p> 	<p><u>Living things and their habitats</u> <u>Knowledge & Understanding Focus:</u> Are living things in danger?</p> 	<p><u>Living things and their habitats</u> <u>Knowledge & Understanding Focus:</u> Do all plants and animals reproduce in the same way?</p> 	<p><u>Living things and their habitats</u> <u>Knowledge & Understanding Focus:</u> In what ways can we sort living things?</p> 