






Science Medium Term Planning
Year: 1 Ash




Term	Theme	Sub questions	Subject Specific Vocabulary	Linked Visits in / Visits out/Experiences/Stories
<p>Autumn Term A</p>  	<p>Biology- Animals Including Humans- The Human Body & Senses</p> <p>Physics- Seasonal Changes</p>	<p>What are the names of the main parts of our bodies? What is the function of the different parts of the human body? What parts of our bodies are responsible for each of our 5 senses? What are our 5 senses?</p> <p>Know that we smell with our noses, see with our eyes, touch and feel with our skin and hands, hear with our ears and taste with our tongues.</p> <p>Know how to explore different materials appropriately (e.g. we smell lemons with our noses, listen to music with our ears, taste sugar with our tongue).</p> <p>What are the 4 main seasons? What is the weather like in Summer, Autumn, Winter and Spring? What season is it now? What is the weather like today? How has the weather changed since last half term? Why has it changed? What are the signs of the seasons changing?</p> <p>Know that there are 4 seasons; Summer, Autumn, Winter and Spring. Know that the weather is hot in Summer. Know that it is mostly sunny in Summer with few rain showers or rainclouds. Know that the leaves turn brown and fall from the trees in Autumn. Know that the weather is cooler in Autumn and it can often be cloudy. Know that the weather is colder in Winter. Know that snow and icy temperatures are common in winter. Know that the temperature increases in Spring and the weather is warmer than winter. Know that it often rains in Spring but is also sunny more frequently than in Winter. Know that it is not safe to look directly into the sun.</p>	<p>Senses, taste, hearing, smell, sight, touch, elbow, shoulder, knee.</p> <p>Summer, Autumn, Winter, Spring, temperature, cloudy, rainy, hot, cold, icy, snow, sunshine, seasons, changes.</p>	<p>Eureka Visit</p>

Assessment will be based on a formative approach of children being able to answer the key questions using the knowledge acquired over the half term through a quiz-based approach.

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	<p>Chemistry - Everyday Materials- Working Scientifically</p>	<p>Know that the leaves turn brown and fall from the trees in Autumn. Know that the weather is cooler in Autumn and it can often be cloudy. Know that the weather is colder in Winter. Know that snow and icy temperatures are common in winter. Know that the temperature increases in Spring and the weather is warmer than winter. Know that it often rains in Spring but is also sunny more frequently than in Winter. Know that it is not safe to look directly into the sun. Know how to record weather patterns and observations; e.g. on a weather chart.</p> <p>What resources would be best to make an umbrella out of? Why have these materials been chosen when making the resources? Why would we not make an umbrella out of glass?</p> <p>Know that different materials are more suitable for different resources. Know that if a material is waterproof, this means that water cannot pass through it and the object keeps water out.</p>	<p>Materials, properties, waterproof, test, predict, experiment, pipette.</p>		
<p>Spring Term A</p>  	<p>Chemistry - Everyday Materials Physics- Seasonal Changes</p>	<p>What does 'opaque' mean? What does 'transparent' mean? What are the properties of metal/ glass/ rock/ water/ wood etc? Know how to describe materials based upon their properties, such as hard/soft, stretchy/stiff, shiny/dull, rough/smooth, bendy/not bendy, opaque/transparent.</p> <p>What are the 4 main seasons? What season is it now? What is the weather like today? How has the weather changed since last half term? Why has it changed? What are the signs of the seasons changing?</p>	<p>Materials, glass, wood, plastic, fabric, foil, metal, rock, brick, opaque, transparent, stretchy, stiff, shiny, dull, rough, smooth, properties, waterproof, suitable.</p> <p>Summer, Autumn, Winter, Spring, temperature, cloudy, rainy, hot, cold, icy, snow, sunshine, seasons, changes.</p>		

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<p>Spring Term B</p>   	<p>Biology- Animals Including Humans- Pets, carnivores, herbivores and omnivores</p> <p>Physics- Seasonal Changes</p>	<p>What is an omnivore, herbivore, carnivore? Do all animals hunt? How can we group animals?</p> <p>Know that animals need food to survive. Know that animals have senses and can respond. Know that animals need a variety of food to be healthy and to grow. Know that carnivores eat meat, herbivores eat plants and omnivores eat both.</p> <p>What are the 4 main seasons? What season is it now? What is the weather like today? How has the weather changed since last half term? Why has it changed? What are the signs of the seasons changing?</p> <p>Know that there are 4 seasons; Summer, Autumn, Winter and Spring. Know that the weather is hot in Summer. Know that it is mostly sunny in Summer with few rain showers or rainclouds.</p>	<p>Amphibian, mammal, reptile, carnivore, herbivore, omnivore.</p> <p>Summer, Autumn, Winter, Spring, temperature, cloudy, rainy, hot, cold, icy, snow, sunshine, seasons, changes.</p>	<p>Pet visit in class- Bow or Miss Quigley's dog, Ozzy.</p> <p>Yorkshire Wildlife Park Visit.</p>	

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<p>Summer Term A</p>  	<p>Biology- Plants- growing plants, identifying and labelling structures (plants and trees), naming a variety of garden plants, deciduous and evergreen trees</p> <p>Physics- Seasonal Changes</p>	<p>What do plants need to grow? What are the names of the parts of a plant/ tree? What are the signs that a plant is growing? What stages can we see? What are the names of some garden plants? What do they look like? Where do they grow? What are the names of some wild plants? What do they look like? Where do they grow?</p> <p>Know the names of some plants, trees and flowers. Know that plants grow from seeds and bulbs. Know that plants need light and water to grow and survive. Know that plants are important. Know the difference between wild and garden plants. Know that we can eat lots of plants. Know what an 'evergreen tree' is and why it has its name. Know what a root is and its function in a plant.</p> <p>What are the 4 main seasons? What season is it now? What is the weather like today? How has the weather changed since last half term? Why has it changed? What are the signs of the seasons changing?</p> <p>Know that there are 4 seasons; Summer, Autumn, Winter and Spring.</p>	<p>Deciduous, evergreen, stem, root, trunk, seed, bulb, flower, petal, light.</p> <p>Summer, Autumn, Winter, Spring, temperature, cloudy, rainy, hot, cold, icy, snow, sunshine, seasons, changes.</p>		

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<p>Summer Term B</p> 	<p>Biology- Animals including Humans- identifying a variety of common animals</p>	<p>What is an amphibian? What is a reptile? What is a mammal? What does warm-blooded and cold-blooded mean? How do we take care of our pets? What do pets need to survive? Is it appropriate to keep all types of animal as a pet? Are there any animals that would not make a good pet? Why? How can we group animals?</p> <p>Know that amphibians are cold-blooded vertebrate, such as frogs, toads, newts and salamanders. Know that amphibians use gills to breathe when younger and then lungs when they have matured. Know that mammals provide milk for their young. Know that we are mammals. Know that birds are warm blooded egg-laying vertebrates. Know that birds have feathers, wings, a beak and can fly. Know that amphibians need to live in a wet or moist habitat. Know that birds can live in different habitats (deserts, mountains, wetlands etc). Know that fish need to live in water to survive.</p>	<p>Amphibian, mammal, reptile, cold-blooded, warm-blooded, wild, pets, domestic.</p>		

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Physics- Seasonal Changes

Know that mammals live on land.
Know about animals that are kept as pets (dogs, cats, hamsters, mice, rabbits etc).
Know that pets need feeding, cleaning, shelter, walking.

- What are the 4 main seasons?**
- What season is it now?**
- What is the weather like today?**
- How has the weather changed since last half term? Why has it changed?**
- What are the signs of the seasons changing?**

Know that there are 4 seasons; Summer, Autumn, Winter and Spring.
Know that the weather is hot in Summer.
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