Science Long Term Plan – Curriculum Map

The science curriculum at Kingswood Parks matches the breadth and ambition of the National Curriculum. The key substantive and disciplinary knowledge has been mapped out so teachers know precisely what to teach and when, can demonstrate a logical progression and can cite how new knowledge and skills build upon what has been taught before. Scientific vocabulary is mapped out so that teachers know precisely what to teach and when. This is in a logical progression so that vocabulary development builds over time. End points have been defined as curricular goals which pupils will work towards. These end points are progressive and enable pupils to apply their knowledge and skills in an open-ended, measurable way which teachers can then assess against. Curriculum plans are adapted to meet the needs of SEND pupils as well as providing pupils with opportunities to deepen their understanding through challenging outcomes which are not limiting. Provision for SEND pupils is personalised for individuals and strategies used will be indicated in planning. We endeavour to educate our children in how science can be seen in real life and how knowledge of science links to future careers.

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Animals Including Hu	mans	1	Plants			Everyday Materials			
Key Concept – Animals Curricular Goal		Key Concept – Parts of a Plant Curricular Goal Pupils can talk about the changes they observe after they have planted a seed and watch a		Key Concept – Change Curricular Goal					
			EYFS – Foundation Stage 2		- apis can can about what happens when c	ner passi and pass an expect			
Animals Including Humans	Plants		Everyday Materials		Seasonal Change	All Living Things and their Habitats			
Key Concept – Animals Curricular Goal Pupils can talk about different animals both in the natural world around them and in other contrasting environments.	Key Concept – Parts of the Plant Curricular Goal Pupils can describe what they observe as a seed grows into a plant. Pupils can describe what a plant needs to be healthy. Pupils can explore planting seeds in different places		Key Concept – Change/ Materials Curricular Goal Pupils can talk about what they observe when ice is melting in different places Pupils can explore the strength of materials when building a house for the Three Little Pigs Pupils can explore floating and sinking when making a boat for a Pirate	Key Concept – Change Curricular Goal Pupils can name the seasons and describe some changes to the natural world as the seasons change		Key Concept – Habitats Curricular Goal Pupils can describe different environments explaining some similarities and differences between them and can compare them to where they live.			
Year 1									
Animals Including Humans	Plants		Everyday Materials		Seasonal Change				
Key Concept – Parts of the Body Curricular Goal To be able to create a model of the human body, label the parts and link to the senses To be able to classify animals according to their animal groups	Key Concept – Parts of a plant Curricular Goal To be able to make observations of plants and know and name the main parts of them		Key Concept – Properties of Materials Curricular Goal To be able to make a waterproof house using a range of materials	Key Concept – Change Curricular Goal To be able to walk around the local area describing and record seasonal changes					
- 10 20 date to diagon, diminate decorating to their diminate groups	1		Year 2	I					
Animals Including Humans	Plants		Everyday Materials			All Living Things and their Habitats			
Key Concept – Lifecycles Curricular Goal To be able to describe how I become a healthy person. To be able to describe the lifecycles of chicks and humans and know how they are different	Key Concept – Plants needs Curricular Goal To be able to grow a sunflower recognise what it needs in order to become a healthy plant		Key Concept – Properties of Materials Curricular Goal To be able to select the correct materials to make a teabag	Goal to select the correct materials to make a teabag		Key Concept – Food Chains Curricular Goal On a walk around the local area can you list things by sorting ir living, dead and never lived To be able to create a woodlice habitat and explain the choices made			
			Year 3			Edit See			
Animals Including Humans Key Concept – Healthy Bodies Curricular Goal To be able to keep a food diary and describe how this is different to an athlete. To be able to complete a jigsaw of the human skeleton and muscular system	Plants Key Concept – Water transportation in plants Curricular Goal To be able to grow a carnation plant and devise an investigation and make observations of how ink is transported through plants and into the flower		Rocks Key Concept – Rocks and soils Curricular Goal To be able to group together different kinds of rocks and explain why	Forces Key Concept – Forces in motion Curricular Goal To be able to explain on which surface a car travels the fastest To be able to investigate different size and strengths of magnets and how these attract or repel a paper clip To be able to describe and construct how to make a simple pulley		Light Key Concept – Shadows Curricular Goal To be able to construct and investigate how to make a shadow puppet theatre			
			Year 4						
Animals Including Humans	States of Matter		Electricity		Sound	All Living Things and their Habitats			
Key Concept – Digestion and teeth Curricular Goal To be able to compare and contrast the impact of different substances on teeth in humans and other animals To be able to compare and contrast the digestive system of an owl and a human	Key Concept – Melting points and the water Curricular Goal To be able to compare and contrast which in higher melting point and explain why To be able to compare and contrast how quevaporates from different sized containers	naterials have a	Key Concept – Constructing circuits Curricular Goal To be able to make a complex circuit coding using a crumble kit to make a toy move, light up or make a sound	Key Concept – Hear Curricular Goal To be able to design suggest reasons for	and test the best possible telephone and	Key Concept – Classification Curricular Goal To be able to compose a poster about a hedgehog that demonstrates an understanding of the habitat and what it nee to live safely			
Animals Including Humans	Properties and changes in th	e materials	Year 5 Earth & Space		Forces	All Living Things and their Habitats			
Key Concept – Gestation in the animal kingdom	Key Concept – changes of state		Key Concept – Our place in the solar system	Key Concept – Grav	rity	Key Concept – Life Cycles			
Curricular Goal To create a presentation indicating the stages of growth in humans and other animals	Curricular Goal Investigate, which materials would be most	•	Curricular Goal To be able to name and explain where the planets are in solar system and compare the time of day at different places on the	1	design and make a parachute	Curricular Goal Describe the differences in life cycles between the different types of animals.			

system and compare the time of day at different places on the

humans and other animals

a warm jacket for wrapping ice cream to stop it melting or

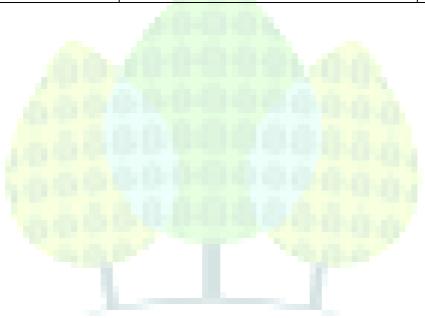
making black out curtains

Curricular Goal 2: Create an investigation to test which shape

boats travels best in water

types of animals.

			Curricular Goal 3: Make a moving toy using pulleys or levers	To be able to describe and explain how plants and animals reproduce				
Year 6								
Animals Including Humans	Light	Electricity	Evolution and Inheritance	All Living Things and their Habitats				
Key Concept – Heart Health	Key Concept – How light travels?	Key Concept – Testing Components	Key Concept – Adaptation	Key Concept – Classifying				
Curricular Goal	Curricular Goal	Curricular Goal	Curricular Goal	Curricular Goal:				
To be able to describe and explain how to keep you heart healthy	To be able to design and make a periscope and explain how it	Pupils make a circuit that has an everyday use	Choose an animal and explain how they have adapted to their	Pupils design and explain a way to classify a range of living things				
	works		environment					



Kingswood Parks