

	Topics									
Devas		Bannerman			Porteous			Borton		
Fantastic Me!		Cycle A			Cycle A			Cycle A		
- I can name the main parts of my body!	Autumn	Spring	Summer	Autumn	Spring	Summer	Autumn	Spring	Summer	
What are our 5 senses?What part of our body do we use for each sense?	The human body	Planting A	Plants	Skeletons	Fossils	Plants A	Forces	Properties of materials	Reproduction A	
- Why is dental hygiene important? - Seasons- Autumn	Seasonal	Animals	Planting C	Movement	Soils	Forces	Space	Animals	Reversible and	
Let's celebrate!	changes	Caring for the planet	Growing and cooking	Nutrition and diet	Light	Magnets	Global warming	including humans	irreversible changes	
Polar Regions - Changing states- freezing and melting - Life cycle of a penguin - Seasons- winter	Materials Seasonal changes	Seasonal changes Planting B	Seasonal changes	Food waste Rocks		Plants B Biodiversity		Life cycles	Plastic pollution Reproduction B	
- Seasons- winter	Cycle B			Cycle B			Cycle B			
Growing Investigate different mini-beasts Life cycle of a butterfly Where do mini-beasts live? (Make a wormery) Parts of a plant What do plants need to grow? Look at different seeds and grow different plants Why do we need to have a healthy diet? London	Autumn Animals needs for survival Humans Materials Plastic	Spring Plants (light and dark) Living things and their habitats Light and dark	Summer Plants (bulbs and seeds) Growing up Bulbs and seeds Growing up Wildlife	Autumn Group and classify living things Data collection A States of matter	Spring Sound Data collection B Electricity Energy	Summer Data collection C Habitats Deforestation The digestive system Food chains	Autumn Living things and their habitats Electricity Renewable energy	Spring Light Light pollution The circulatory system Diet, drugs and lifestyle	Summer Variation Adaptations Fossils	
Beside the seaside - How can we protect sea creatures? (single use plastic) - What is a circuit? - How can I make a lightbulb work? - Seasons- Summer										



		Ask quest	ions							
Devas	Bannermar	Bannerman			Borton					
40-60+ months I can ask simple questions. ELG Communication and Language; Listening, Attention and Understanding: - Listen attentively and respond to what they hear with relevant questions, comments and actions when being read to and during whole class discussions and small group interactions Make comments about what they have heard and ask questions to clarify their understanding.	Year 1 I can ask simple questions and recognise that they can be answered in different ways	Year 2 I can ask simple questions and recognise that they can be answered in different ways. I can communicate my ideas, what I can do and what I can find out in different ways	Year 3 I can ask questions and understand there are different enquiry types I could use to answer them. I can ask questions surrounding patterns I have found in data.	Year 4 I can ask relevant questions and use different types of scientific enquiries to answer them. I can ask questions surrounding patterns I have found in data.	Year 5 I can ask scientific questions and begin to understand which questions would be best suited to each enquiry type. I can observe over time, asking pertinent questions about similarities and differences.	Year 6 I can plan different types of scientific enquiries to answer my own or others' questions, including recognising and controlling variables where necessary I can recognise things change over time, and can ask pertinent questions and suggest reasons for similarities and differences over				
Devas	Plan time									
40-60+ months I can say verbally explain what I would like to investigate. I can verbally explain how I might solve a problem. ELG Personal, Social and Emotional Development; Self-Regulation:	Year 1 I can verbally state what I am going to investigate.	Year 2 I can make simple predictions based on a question. I can identify what I will change and keep the same.	Year 3 I can make relevant predictions. I can identify what I will change, observe and keep the same. I can set up simple practical enquiries with support.	Year 4 I can make predictions based on simple scientific knowledge. I can identify what I will change, observe or measure and keep the same. I can set up simple practical enquiries,	Year 5 I can make predictions based on scientific knowledge. I can plan different types of scientific enquiry with support. I can identify the dependent, independent and	Year 6 I can make predictions based on scientific knowledge. I can plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.				



	<u>Prog</u>	<u>ression of Ski</u>	<u>lis in Science</u>			
 Set and work towards simple goals, being able to wait for what they want and control their immediate impulses when appropriate. Understanding the World; The Natural World: Explore the natural world around them, making observations and drawing pictures of animals and plants. 				comparative and fair tests.	controlled variables when appropriate.	
		Make observ	vations			
Devas	Bannermai	า	Port	eous	Вог	rton
40-60+ months I can watch something over a short period of time. ELG Understanding the World; People, Culture and Communities: - Describe their immediate environment using knowledge from observation, discussion, stories, non-fiction texts and maps. Understanding the World; The Natural World: - Explore the natural world around them, making observations and drawing pictures of animals and plants.	Year 1 I can observe something closely.	Year 2 I can observe something closely using simple equipment.	Year 3 I can use scientific equipment to make observations.	Year 4 I can make systematic and careful observations.	Year 5 I can use a range of scientific equipment to make systematic and careful observations.	Year 6 I can use a range of scientific equipment to make systematic an careful observations with increased complexity.
		Take measur	ements			
Devas	Bannerman		Port	eous		rton
30-50 months 40-60+ months ELG	Year 1 I can carry out simple tests using non-standard measurements when appropriate.	Year 2 I can perform simple tests using standard units when appropriate.	Year 3 I can carry out tests and simple experiments and take measurements using	Year 4 I can take accurate measurements using standard units, using a range of equipment,	Year 5 I can take accurate measurements using a range of scientific equipment.	Year 6 I can take measurements, using a range of scientific equipment, with
Personal, Social and Emotional Development; Managing Self:			standard units.	including thermometers and data loggers.		increasing accuracy and precision, taking



- Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices. Understanding the World; The Natural World: - Explore the natural world around them, making observations and drawing pictures of animals and plants.	Ga	ather, record a	and classify da	ta	I can start to take repeat readings when appropriate.	repeat readings when appropriate.
Devas	Ranne	erman	Porteous		Borton	
40-60+ months	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
I can record observations in ways that are important and meaningful to me. ELG Understanding the World; The Natural World: - Explore the natural world around them, making observations and drawing pictures of animals and plants.	I can gather and record simple data. I can use simple scientific language to record my findings with help. I can sort objects and living things into groups based on simple properties.	I can gather and record data to help in answering questions. I can identify and classify different objects and living things.	I can gather, record, classify and present data in a variety of ways to help answer questions. I can record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables	I can gather, record, classify and present data in a variety of ways to help in answering questions. I can record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables	I can gather, record and classify data with increasing complexity to help in answering questions. I can record data using scientific diagrams and labels, classification keys, tables, bars and line graphs. I can use test results to set up further comparative and fair tests.	I can record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs. I can use test results to make predictions to set up further comparative and fair tests.
		Present	findings			
Devas	Banne	erman	Port	eous	Bor	ton
40-60+ months	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6



I can record observations in ways that are important	I can explain what I	I can talk about what I	I can report on findings	I can report on findings,	I can report and present	I can report and present
and meaningful to me.	found out to an adult or	have found out and	from enquiries,	including oral and	findings from enquiries,	findings from enquiries,
	partner.	how I found it out.	including oral and	written explanations,	including conclusions.	including conclusions
ELG			written explanations.	displays or		and casual
Understanding the World; The Natural World:				presentations of results	I can identify casual	relationships.
- Explore the natural world around them, making				and conclusions.	relationships in oral and	
observations and drawing pictures of animals and					written forms such as	I can use oral and
plants.					displays and other	written forms such as
					presentations.	displays and other
						presentations to
						present findings.

Answer questions and make conclusions								
Devas	Bannerman		Port	teous	Во	rton		
I can answer simple questions with some support. ELG Communication and Language; Speaking: Participate in small group, class and one-to-one discussions, offering their own ideas, using recently introduced vocabulary. Offer explanations for why things might happen, making use of recently introduced vocabulary from stories, non-fiction, rhymes and poems when appropriate.	Year 1 I can answer simple questions. I can use my observations and ideas to suggest answers to questions	Year 2 I can use my observations and ideas to suggest answers to questions.	Year 3 I can make simple conclusions. I can use results, findings or observations to answer questions.	Year 4 I can use straight- forward scientific evidence to answer questions or to support my findings. I can use results to draw simple conclusions. I can begin to identify differences and similarities or changes related to simple ideas or processes.	Year 5 I can use scientific evidence to answer questions. I can make conclusions based on scientific evidence and from my own testing and findings. I can identify differences, similarities or changes related to simple ideas or processes.	Year 6 I can use scientific evidence to answer questions. I can make conclusions based on scientific evidence and from my own testing and findings. I can identify scientific evidence that has been used to support or refuse ideas or arguments.		

Evaluate



Devas	Bannerm	nan	Porteous		Borton	
ELG Communication and Language; Speaking: - Offer explanations for why things might happen, making use of recently introduced vocabulary from stories, non-fiction, rhymes and poems when appropriate.		l of fo	Year 3 can suggest questions for further nvestigation.	Year 4 I can begin to make predictions for new values, suggest improvements and raise further questions.	Year 5 I can make predictions for new values, suggest improvements and raise further questions.	Year 6 I can use test results to make predictions to set up further comparative and fair tests. I can suggest investigation improvements including accuracy of results. I can provide some simple examples of how to extend an investigation.

Progression of Vocabulary- Working Scientifically									
KS1		Li	KS2	UKS2					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
Compare Sort and group Similar, different Change Plan What? How? Why? Equipment Explore Find out	Investigate Observe Describe Identify Label Measure Record Pattern Predict Explain Notice Same, different What did you find out?	Recognise Prediction (What do you think will happen?) Test Investigation Record Units Table Fair What do we change, what do we keep the same, what are we measuring? Evidence	Gather Record Present Classify Data Practical Comparative Fair test Conclude/conclusions Evaluate Systematic Measurements Bar graph Table Tally	Systematic observations Variables Constants Controlled variables (What do we keep the same?) Independent variable (What do we change?) Dependent variable (What do we measure?) Relationship Analyse Interpret Repeat readings Report and present	Scientific enquiries Hypothesis Degree of trust Accuracy Support Refute Evaluate Justify Scatter graph Categorise Comparative Control Accuracy of results				





What happened? Questions Answers Classify	Standard Units Key Conclusion (What have we found out?)	keys Vary/keep the same Scientific evidence Report Similarities/differences	Causal relationship Scientific evidence Line graph	