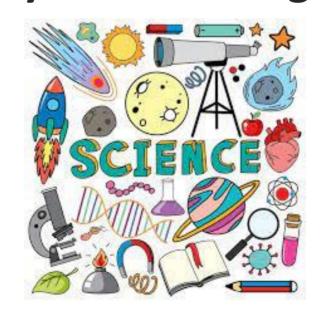


Branton Community Primary School and

Breamish Valley Community Nursery Cycle B Coverage







Branton Community Primary School and Breamish Community Valley Nursery Cycle B – Science Coverage

				Cycle B				
			EYFS/KS1 Topics	Animals & Humans (inc Survival) Stem - Investigations	Everyday materia everyday ma Stem - Investi	Stem - Investigations Plants		
			KS2 Topics	Animals including Humans Stem - Investigations	Earth and Space	Sound	Forces and Magnets	Plants
		Communication and Language	Understand simple questions about 'who', 'what' and 'where' (but generally not 'why').	✓	*		~	
lly	to 3	Physical Development	Show an increasing desire to be independent, such as wanting to feed themselves and dress or undress.	✓			✓	
Working Scientifically	0	Understanding the World	Repeat actions that have an effect. Explore materials with different properties. Explore natural materials, indoors and outside. Explore and respond to different natural phenomena in their setting and on trips.	✓	~		~	
		Communication and Language	Understand 'why' questions, like: "Why do you think the caterpillar got so fat?"	✓	~		~	
	3 to 4	Physical Development	Make healthy choices about food, drink, activity and tooth brushing.	✓	~		~	

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	Understanding the World	Use all their senses in hands-on exploration of natural materials. Explore collections of materials with similar and/or different properties. Talk about what they see, using a wide vocabulary. Begin to make sense of their own life-story and family's history. Explore how things work. Plant seeds and care for growing plants. Understand the key features of the life cycle of a plant and an animal. Begin to understand the need to respect and care for the natural environment and all living things. Explore and talk about different forces they can feel. Talk about the differences between materials and changes they notice.			₩ Community
Bec	Communication and Language	Learn new vocabulary. Ask questions to find out more and to check what has been said to them. Articulate their ideas and thoughts in well-formed sentences. Describe events in some detail. Use talk to work out problems and organise thinking and activities. Explain how things work and why they might happen. Use new vocabulary in different contexts.	•	•	•
	Physical Development	Know and talk about the different factors that support their overall health and wellbeing: -regular physical activity - healthy eating -tooth brushing -sensible amounts of 'screen time' - having a good sleep routine - being a safe pedestrian	~	•	~

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	Understanding the World		Explore the natural world around them. Describe what they see, hear and feel while they are outside. Recognise some environments that are different to the one in which they live. Understand the effect of changing seasons on the natural world around them.	•	*	And Andrew Community
	Commun ication and Language	Listenin g, Attenti on and Unders tanding	Make comments about what they have heard and ask questions to clarify their understanding.	*	*	*
ELG	Personal, Social and Emotion al Develop ment	Managi ng Self	Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices.	~	~	*
	Understa nding the World	The Natural World	Explore the natural world around them, making observations and drawing pictures of animals and plants.			
	Asking sim		tions and recognising that they can be ent ways	✓	~	~
KS1	Observing	closely, ι	using simple equipment	~	~	~
-	Performir	ng simple	tests	~	~	~
	Identifying	g and clas	sifying	~	~	~

							Community Primory
	Using their observations and ideas to suggest answers to questions	~		✓		~	They Community
	Gathering and recording data to help in answering questions.	~		~			~
	Asking relevant questions and using different types of scientific enquiries to answer the	~	~	~	~	~	~
	Setting up simple practical enquiries, comparative and fair tests	~	~	✓	~	~	~
	Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers	~	*	*	*	~	~
LKS2	Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions	~	~	~	~	~	~
 	Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables	~	~	~	~	~	~
	Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions	~	~	~	*	~	~
	Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions	~	~	✓	*	~	~
	Identifying differences, similarities or changes related to simple scientific ideas and processes using straightforward scientific evidence to answer questions or to support their findings.	~	~	~	~	~	~
25	Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary	*	~	~	*	~	~
UKS2	Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate	~	~	~	*	~	~

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	ding data and results of increasing complexity using scientific ms and labels, classification keys, tables, scatter	~	*	*	*	~	Bee omiting to the Community
Graphs	s, bar and line graph	~	*	~	~	~	~
compa enquir explan	test results to make predictions to set up further arative and fair test reporting and presenting findings from ries, including conclusions, causal relationships and retains of and degree of trust in results, in oral and written such as displays and other presentations	*	*	*	*	*	*

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			EYFS/KS1 Topics	Animals & Humans (inc Survival) Stem - Investigations	inc Survival) everyday materials		Stem - Investigations community Plants	
	KS2 Topics			Animals including Humans Stem - Investigations	Forces and Magnets	Sound	Earth and Space	Plants
		Communication and Language	Understand simple questions about 'who', 'what' and 'where' (but generally not 'why').	*				
	33	Physical Development	Show an increasing desire to be independent, such as wanting to feed themselves and dress or undress.	*				
	0 to	Understanding the World	Repeat actions that have an effect. Explore materials with different properties. Explore natural materials, indoors and outside. Explore and respond to different natural phenomena in their setting and on trips.	*				
umans		Communication and Language	Understand 'why' questions, like: "Why do you think the caterpillar got so fat?"	*				
luding H		Physical Development	Make healthy choices about food, drink, activity and tooth brushing.	*				
Animals Including Humans	3 to 4	Understanding the World	Use all their senses in hands-on exploration of natural materials. Explore collections of materials with similar and/or different properties. Talk about what they see, using a wide vocabulary. Begin to make sense of their own life-story and family's history. Explore how things work. Plant seeds and care for growing plants. Understand the key features of the life cycle of a plant and an animal. Begin to understand the need to respect and care for the natural environment and all living things.	*				

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		Explore and talk about different forces they can feel. Talk about the differences between materials and changes they notice.		Control of the Community of the Communit
	Communication and Language	Learn new vocabulary. Ask questions to find out more and to check what has been said to them. Articulate their ideas and thoughts in well-formed sentences. Describe events in some detail. Use talk to work out problems and organise thinking and activities. Explain how things work and why they might happen. Use new vocabulary in different contexts.	*	
Rec	Physical Development	Know and talk about the different factors that support their overall health and wellbeing: -regular physical activity - healthy eating -tooth brushing -sensible amounts of 'screen time' - having a good sleep routine - being a safe pedestrian	*	
	Understanding the World	Explore the natural world around them. Describe what they see, hear and feel while they are outside. Recognise some environments that are different to the one in which they live. Understand the effect of changing seasons on the natural world around them.	*	

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		Communication and Language	Listening, Attention and Understanding	Make comments about what they have heard and ask questions to clarify their understanding.	~	and the state of t
	ELG	Personal, Social and Emotional Development	Managing Self	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.		
		I Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with which sense.		~		
		Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals		~		
	KS1	Identify and name a variety of common animals that are carnivores, herbivores and omnivores			~	
		Describe and compare the structure of a range of common animals (fish, amphibians, reptiles, birds and mammals, including pets)			~	
		Notice that animal adults	ls, including huma	ns, have offspring which grow into	✓	
nals	LKS2	•	nat they cannot m	ans, need the right types and amount ake their own food; they get nutrition	~	
Animals	LKS2	Identify that huma for support, prote		er animals have skeletons and muscles ent.	~	

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	Describe the simple functions of the basic parts of the digestive system in humans	✓		and the Community of th
	Identify the different types of teeth in humans and their simple functions	✓		
	Construct and interpret a variety of food chains, identifying producers, predators and prey.	~		
	Find out about and describe the basic needs of animals, including humans, for survival (water, food and air)	~		
	Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.	~		
	Describe the changes as humans develop to old age.	✓		
UKS2	Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function	~		
	Describe the ways in which nutrients and water are transported within animals, including humans.	✓		

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			EYFS/KS1 Topics	Animals & Humans (inc Survival) Stem - Investigations	Everyday materials/ Uses of everyday materials Stem - Investigations		Stem - Investigations Plants	
			KS2 Topics	Animals including Humans Stem - Investigations	Forces and Magnets	Sound	Earth and Space	Plants
terials		Communication and Language	Understand simple questions about 'who', 'what' and 'where' (but generally not 'why').		~			
everyday materials	0 to 3	Physical Development	Show an increasing desire to be independent, such as wanting to feed themselves and dress or undress.		*			
Uses of		Understanding the World	Repeat actions that have an effect. Explore materials with different properties. Explore natural materials, indoors and outside. Explore and respond to different natural phenomena in their setting and on trips.		*			
Everyday materials/		Communication and Language	Understand 'why' questions, like: "Why do you think the caterpillar got so fat?"	_	*			
Everyd	3 to 4	Physical Development	Make healthy choices about food, drink, activity and tooth brushing.		~			

				ile do
	Understanding the World	Use all their senses in hands-on exploration of natural materials. Explore collections of materials with similar and/or different properties. Talk about what they see, using a wide vocabulary. Begin to make sense of their own life-story and family's history. Explore how things work. Plant seeds and care for growing plants. Understand the key features of the life cycle of a plant and an animal. Begin to understand the need to respect and care for the natural environment and all living things. Explore and talk about different forces they can feel. Talk about the differences between materials and changes they notice.	•	B Community Community
	Communication and Language	Learn new vocabulary. Ask questions to find out more and to check what has been said to them. Articulate their ideas and thoughts in well-formed sentences. Describe events in some detail. Use talk to work out problems and organise thinking and activities. Explain how things work and why they might happen. Use new vocabulary in different contexts.	*	
Rec	Physical Development	Know and talk about the different factors that support their overall health and wellbeing: -regular physical activity - healthy eating -tooth brushing -sensible amounts of 'screen time' - having a good sleep routine - being a safe pedestrian	•	
	Understanding the World	Explore the natural world around them. Describe what they see, hear and feel while they are outside. Recognise some environments that are	✓	

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			one in which they live. effect of changing seasons on the natural em.		Tollar Commi
	Communication and Language	Listening, Attention and Understanding	Make comments about what they have heard and ask questions to clarify their understanding.	~	
ELG	Personal, Social and Emotional Development	Managing Self	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.	~	
	Distinguish between an object and the material from which it is made		✓		
	Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock		veryday materials, including wood, plastic,	~	
	Describe the sin	nple physical pro	perties of a variety of every day materials	✓	
KS1	-	Compare and group together a variety of everyday materials on the basis of their simple physical properties.		~	
	· ·	Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for		~	
		•	objects made from some materials can ng, twisting and stretching.	~	

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EYFS/KS1 Topics KS2 Topics			Animals & Humans (inc Survival) Stem - Investigations	Everyday materials/ materi Stem - Inves	ials	Stem - Investigations comments Plants		
			Animals including Humans Stem - Investigations	Forces and Magnets	Sound	Earth and Space	Plants	
		compare how things move on different surfaces		~				
		notice that some forces need contact between two objects, but magnetic forces can act at a distance		*				
	2	observe how magnets attract or repel each other and attract some materials and not others		*				
nets	LKS2	compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials		~				
Forces and Magnets		describe magnets as having two poles		✓				
		predict whether two magnets will attract or repel each other, depending on which poles are facing.		~				
		explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object		~				
		identify the effects of air resistance, water resistance and friction, that act between moving surfaces		*				
	UKS2	recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.		~				

EYFS/KS1 Topics KS2 Topics			Animals & Humans (inc Survival) Stem - Investigations	Everyday materials/ Uses of everyday materials Stem - Investigations		Stem - Investigations comments	
			Animals including Humans Stem - Investigations	Forces and Magnets	Sound	Earth and Space	Plants
		identify how sounds are made, associating some of them with something vibrating			~		
		recognise that vibrations from sounds travel through a medium to the ear			*		
	LKS2	find patterns between the pitch of a sound and features of the object that produced it find patterns between the volume of a sound and the strength of the vibrations that produced it			*		
Sound		recognise that sounds get fainter as the distance from the sound source increases.			*		
		Recognise that sounds can be high or low (pitched)			~		
		Describe how sounds are made when objects vibrate			*		
		Recognise that not all objects can be seen to vibrate			*		
	UKS2	Recognise that vibrations can travel at different speeds through different mediums.					

						_	Community Primary
		EYFS/KS1 Topics	Animals & Humans (inc Survival) Stem - Investigations	Everyday materials/ Uses of everyday materials Stem - Investigations		Stem - Investigations Plants	
KS2 Topics			Animals including Humans Stem - Investigations	Forces and Magnets	Sound	Earth and Space	Plants
l	LKS2	Observe how the Sun appears to move across the sky from East to West				*	
		Observe how the Sun appears to move and this causes shadows to change				~	
		Describe how we can see the Moon because the Sun's light reflects off it				*	
Earth and Space		Describe how the Earth and Moon go around the Sun in one year				~	
		Recognise that humans have been to the Moon.				✓	
		describe the movement of the Earth, and other planets, relative to the Sun in the solar system				*	
		describe the movement of the Moon relative to the Earth				✓	
	UKS2	describe the Sun, Earth and Moon as approximately spherical bodies				*	
		use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.				~	

			EYFS/KS1 Topics	Animals & Humans (inc Survival) Stem - Investigations	Everyday materials/ l materia Stem - Invest	als	Stem - Investigations Plants		
KS2 Topics			Animals including Humans Stem - Investigations	Forces and Magnets	Sound	Earth and Space	Plants		
Plants		Communication and Language	Understand simple questions about 'who', 'what' and 'where' (but generally not 'why').				~		
	8	Physical Development	Show an increasing desire to be independent, such as wanting to feed themselves and dress or undress.				~		
	0 to	Understanding the World	Repeat actions that have an effect. Explore materials with different properties. Explore natural materials, indoors and outside. Explore and respond to different natural phenomena in their setting and on trips.				*		
		Communication and Language	Understand 'why' questions, like: "Why do you think the caterpillar got so fat?"				~		
	3 to 4	Physical Development	Make healthy choices about food, drink, activity and tooth brushing.				~		

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Understandin the World	Use all their senses in hands-on exploration of natural materials. Explore collections of materials with similar and/or different properties. Talk about what they see, using a wide vocabulary. Begin to make sense of their own life-story and family's history. Explore how things work. Plant seeds and care for growing plants. Understand the key features of the life cycle of a plant and an animal. Begin to understand the need to respect and care for the natural environment and all living things. Explore and talk about different forces they can feel. Talk about the differences between materials and changes they notice.	•	A Section Controlled
Communicati and Language	,		~
Physical Development	Know and talk about the different factors that support their overall health and wellbeing: -regular physical activity - healthy eating -tooth brushing -sensible amounts of 'screen time' - having a good sleep routine - being a safe pedestrian		~

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						Extramunity Aimon
		Understanding the World	Describe what the are outside. Recognise some are different to they live.	effect of changing seasons on the		◆ Commodified Commodified
		Communication and Language	Listening, Attention and Understanding	Make comments about what they have heard and ask questions to clarify their understanding.		~
	ELG	Personal, Social and Emotional Development	Managing Self	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.		
	1	Identify and name a variety of common, wild and garden plants, including deciduous and evergreen.				~
		Identify the basic structure of a range of common flowering plants, including trees.				~
	KS1	observe and describe how seeds and bulbs grow into mature plants				~
			scribe how plants grow and stay he	need water, light and a suitable ealthy.		~

					- A Sg	
Plants	-KS2	identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant		See The Louis Community		
	Pla		investigate the way in which water is transported within plants		*	
		explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.		~		

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