

Casterton Primary Academy – Science Curriculum Map Year A (Sept Odd Years)

Title or Question National Curriculum  Stimulus and Enrichment   Outcome World of Work Link British Values 

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Rec	<u>The Natural World</u> <ul style="list-style-type: none"> Explore the natural world around them, making observations and drawing pictures of animals and plants Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. 					
Year 1/2	<u>Seasonal Changes Y1</u> Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies <i>What should I wear today?</i> Taught termly as the seasons change.					
	<i>What grows in your garden?</i> Plants Y1 Plant hunt Short film Gardener, Farmer	<i>How can I be a super gardener?</i> Plants Y2 Planting Bulbs Instructions to care for a plant Market gardener	<i>How are animals different to us?</i> Animals including humans Y1 Bird Watching Lift the flap 'Who Am I?' Zoo keeper, naturalist	<i>How do I know what is happening around me?</i> Animals including humans Y1 Listening activities Create an activity using one sense Audiologist, optician	<i>How can you tell if something is alive?</i> Living Things and their Habitats Y2 Animal remains Poster about signs of life Vet, tree surgeon	<i>What lives in a place like this?</i> Living Things and their Habitats Y2 Bug hunt Bug identification chart Bee keeper, biologist
Year 3/4	<i>Where does our food go?</i> Animals including humans Y4 Make a digestive system Poster or information sheet Dentist, Doctor	<i>How do we know electricity is there?</i> Electricity Y4 Explorify Odd One Out Video Explanation Electrician	<i>How can we hear sound?</i> Sound Y4 (Longer unit) Carousel of activities exploring vibration Explanation writing answering Big Question Audiologist, Musician	<i>How does your skeleton help you?</i> Animals including humans Y3 Plus, Minus Interesting Discussion Time Annotated Diagram of the Skeleton Doctor, Physiotherapist	<i>How can water change?</i> States of Matter Y4 Outdoor activities with water and ice Model of the water cycle Water treatment operative, chemist	

<p>Year 5/6</p>	<p><i>How does our Solar System work?</i></p> <p>Earth and space Y5</p> <p>Explorify 'Zoomed In' activity</p> <p>Information booklet for Year 3</p> <p>Astronaut, physicist, astronomer</p>	<p><i>Why might materials change?</i></p> <p>Properties and changes of materials Y5</p> <p>Raisin and Lemonade Starter</p> <p>Written explanations based on practical work</p> <p>Engineer, physicist, chemist</p> <p>(2021-22 only – usually taught in Year B)</p>	<p><i>Where did we come from?</i></p> <p>Evolution and inheritance Y6</p> <p>Video Clip – Life on Earth</p> <p>Quiz with questions and answers for different classes to try</p> <p>Biologist, geneticist</p>	<p><i>How do living things survive?</i></p> <p>Living things and their habitats Y6</p> <p>Odd One Out</p> <p>Animal Identification Key</p> <p>Zoologist, biologist, vet</p>	<p><i>Why do we need blood?</i></p> <p>Animals including humans Y6</p> <p>Visit to the Leisure Box</p> <p>Exercise video</p> <p>Fitness instructors, doctors, nutritionist, athlete</p>	<p><i>How is everything powered?</i></p> <p>Electricity Y6</p> <p>Circuit challenge activity</p> <p>Annotated circuit diagram</p> <p>Electrician, electrical engineer</p>
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Casterton Primary Academy – Science Curriculum Map Year B (Sept Even Years)

Title or Question

National Curriculum



Stimulus and Enrichment



Outcome

World of Work Link

British Values



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Rec	The Natural World <ul style="list-style-type: none"> Explore the natural world around them, making observations and drawing pictures of animals and plants Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. 					
Year1 and Year2	Seasonal Changes Y1 Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies <i>How do we know what season it is?</i> Film clip – Earth, seasons and time Going outside to experience different weathers Weather forecast given by the children Weather forecaster Taught termly as the seasons change.					
	<i>Why are objects made from different materials?</i> Everyday Materials Y1 Object treasure hunt in the grounds A book about materials People who make things eg. joiner	<i>What is a material's superpower?</i> Uses of materials Y2 Materials bingo Poster with prompts annotated with uses of materials People who make things eg. builder, dressmaker	<i>Do materials have secret strengths?</i> Uses of materials Y2 BBC Science Clip Video explanation of how materials can be changed. People who make things eg. potter, car manufacturer	<i>Where do babies come from?</i> Animals including humans Y2 Eggs to observe Video resources Butterfly gardens Life Cycle for a duck Doctor, nurse or vet	<i>How can I be a healthy hero?</i> Animals including humans Y2 Fruit tasting Possible visit from a mum and baby Life cycle of a human Nurse, doctor, cook	

<p>Year 3 and Year 4</p>	<p><i>Can we see in the dark?</i> Light Y3 Odd One Out Exploring shadows Shadow puppets Scientist, engineer, designer</p>	<p><i>What makes things move?</i> Forces and Magnets Y3 Coin spinning experiment Short written reports explaining findings from enquiries Designer, recycler</p>	<p><i>Why do we have flowers?</i> Plants Y3 Botanicum by Kathy Willis An information text to be used as a revision guide for Year 6 Horticulturalist Gardener</p>	<p><i>Are all rocks the same?</i> Rocks Y3 Craggy cliff- pictures of famous rocks around the world. Children make a display and present their learning to another class Geologist Archaeologist Builder Stone mason</p>	<p><i>Where have all the bees gone?</i> Living things and their habitats Y4 Nature/ mini beast hunt Persuasive letter asking for bee friendly planting Naturalist Conservationist</p>
<p>Year 5 and Year 6</p>	<p><i>How and why do we never run out of plants in the world?</i> Living things and their habitats Y5 Film clips and images of rainforest plants Information Booklet Farming, Horticulture</p>	<p><i>Do we change as we age?</i> Animals including humans Y5 Class discussion leading to an informal display Draw the life cycle of a range of animals identifying similarities and differences between the life cycles School Nurse Doctors Nurses Scientists</p>	<p><i>What affects the movement of objects?</i> Forces Y5 Moon landing – hammer and feather video clip Dragon’s Den presentation Engineers, Astronaut, Race car drivers</p>	<p><i>How do we know which material is best suited for a purpose?</i> Properties and changes of materials Y5 Odd One Out Explanation using evidence collected Designer, engineer</p>	<p><i>How do we see?</i> Light Y6 Short film clip Annotated drawings Ophthalmologist, optician</p>