

Robins Class Long Term Science Plan

Robins Class Science Year A	AUTUMN	AUTUMN	SPRING	SPRING	SUMMER	SUMMER
SCIENCE NATIONAL CURRICULUM	<p>Animals including humans (A): Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. Notice that animals, including humans, have offspring which grow into adults</p>	<p>Everyday Materials (A) Distinguish between an object and the material from which it is made. Identify and name a variety of materials, including wood, plastic, glass, metal, water, and rock Describe the simple physical properties of a variety of everyday objects Compare and group together a variety of everyday materials on the basis of their simple physical properties</p>	<p>Animals including humans (B) 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 (brushing teeth) (Teeth- recall carnivores, herbivores and omnivores.)</p>	<p>Uses of materials (A) Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and card-board for particular uses Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching</p>	<p>Plants: (A) Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees Describe the structure of plants and trees Observe and describe how seeds and bulbs grow into mature plants. Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy</p>	<p>Living things in their habitat: (<i>Minibeasts & scientific enquiry (A)</i>) Explore and compare the differences between things that are living, dead, and things that have never been alive Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other Identify and name a variety of plants and animals in their habitats and microhabitats Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food. (Recall: Identify and name a variety of common animals including fish, amphibians, birds, reptiles and mammals Identify and name a variety of common animals that are carnivores, herbivores and omnivores. Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) <i>MRS NERG</i> <i>Branching Databases</i></p>
	<p>Seasons What do we know about the weather ? OA</p>	<p>Seasons Hibernation Hibernation Hotel</p>	<p>Seasons Order seasons and celebrations that take place—calendar wheel</p>	<p>Seasons Clothes for different seasons</p>	<p>Seasons How do plants and trees change?</p>	<p>Seasons Day length</p>
SCIENTISTS	<p>Elizabeth Anderson: 1st woman doctor</p>	<p>Christiansen: Lego Dunlop: Tyres</p>				<p>Rachel Carson: ocean pollution</p>
SCIENCE ENRICHMENTS	<p>Hospital / doctor visit</p>		<p>Visit from nurse or dentist</p>	<p>Make bread</p>	<p>Garden centre Vistaveg</p>	<p>Eden Rivers Trust/ YDNP river dipping Zoobidoo Butterfly house Lancaster Bee Man</p>

Robins Class Science Year B	AUTUMN	AUTUMN	SPRING	SPRING	SUMMER	SUMMER
SCIENCE NATIONAL CURRICULUM	Plants: (B) Identify and name a variety of common wild and garden plants, including deciduous and ever-green trees Identify and describe the basic structure of a variety of common flowering plants including trees Observe and describe how seeds and bulbs grow into mature plants Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy	Animals including humans:(C) Notice that animals, including humans, have offspring which grow into adults 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 (washing hands)	Animals including humans:(D) Identify and name a variety of common animals including fish, amphibians, birds, reptiles and mammals Identify and name a variety of common animals that are carnivores, herbivores and omnivores. Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) (recall naming human body partsA)	Everyday Materials: (B) Distinguish between an object and the material from which it is made. Identify and name a variety of materials, including wood, plastic, glass, metal, water, and rock Describe the simple physical properties of a variety of everyday objects Compare and group together a variety of everyday materials on the basis of their simple physical properties	Uses of materials: (B) Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching	Living things in their habitat: (B) Explore and compare the differences between things that are living, dead, and things that have never been alive Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other Identify and name a variety of plants and animals in their habitats Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food MRS NERG Branching Databases
	Seasons How do plants and trees change? OA	Seasons Hibernation Tw: Don't Hog the Hedge	Seasons Order seasons and celebrations that take place	Seasons Day length	Seasons Measure rainfall OA Measure wind direction OA How does the weather change? OA (graphs of annual weather, clothing materials for the weather)	Seasons Clothes for different seasons
SCIENTISTS		Louis Pasteur: Germs	George Mottershead: Chester zoo	Dunlop: tyres Macintosh: Waterproofs	George Symons: rain guage Louis Pasteur: germs	Rachel Carson: ocean pollution
SCIENCE ENRICHMENTS	Plant bulbs and trees	Vet visit Pet show	Lake District Wildlife Park Leighton Moss Dove Cottage: animals alive			Maryport Aquarium/Allonby beach

ENRICHMENTS:

On site: pond, raised fruit & veg beds, fruit trees, trees, minibeast hotel, mixed hedgerow, nesting boxes, tree planting, (dev wild flower area & woodstore)

Local area: wild flower meadows, Lyvennet River, Crake Trees, vegetable growers coop, farm visits, limestone pavement, rewilded areas, disused quarry, large ssi area, orchard, doctor's surgery, tree planting group

Other visits: Lake District/ Yorkshire Dales National Parks, Lake District Animal Park, Leighton Moss, Maryport Aquarium and beach, Butterfly House at Lancaster, Acorn Bank

Visitors: North West Water, YDNP, the Environment Agency, local bee keeper, school nurse, sibling's babies