

# **Brize Norton Primary School**

We **SHINE** for ourselves and each other with kindness *Stirving, Helping, Inspiring, Nurturing, Excelling* 



## Year 1 – 3 Science Long Term Plan

	Autumn	Spring	Summer				
Seasonal Changes will be taught across the year:							
	observe changes across the four seasons						
observe and describe weather associated with the seasons and how day length varies							
	Materials	Animals including Humans	Plants and Living things				
1. 2. 3. 4. Year 2 1.	<ul> <li>Pupils should be taught to:</li> <li>Distinguish between an object and the material from which it is made.</li> <li>Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water and rock.</li> <li>Describe the simple physical properties of a variety of everyday materials.</li> <li>Compare and groups together a variety of everyday materials on the basis of the simple physical properties.</li> <li>Pupils should be taught to:</li> <li>Identify and compare the uses of a variety of everyday materials including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.</li> <li>Find out how the shapes of solid objects made from some materials can be</li> </ul>	Year 1 – Pupils should be taught to:  1. Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals.  2. Identify and name a variety of common animals that are carnivores, herbivores and omnivores  3. Describe and compare the structure of common animals (fish, amphibians, reptiles, birds, mammals including pets)  4. Identify, name, draw and label the basic parts of the human boy and say which part of the body is associated with each sense  Year 2 – Pupils should be taught to:  1. Notice that animals, including humans, have offspring which grow into adults.  2. Find out about and describe the basic	Across Key Stage 1 – Pupils should be taught to:  1. Identifying and name a variety of common wild and garden plants, including deciduous and evergreen trees  2. Identify and describe the basic structure of a variety of common flowering plants, including trees.  Year 2 – Pupils should be taught to:  1. Explore and compare the differences between things that are living, dead and things that have never been alive.  2. 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 one another.  3. Identify and name a variety of plants and				
	changed by squashing, bending, twisting and stretching.	needs of animals, including humans fo0r survival (water, food, air)	animals in their habitats, including micro- habitats.				



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	Year 3 – Pupils should be taught to:  1. Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat.  2. Identify that humans and some animals have skeletons and muscles for support, protection and movement.	<ol> <li>Describe how animals obtain their food form plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.</li> <li>Observe and describe how seeds and bulbs grow into mature plants.</li> <li>Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.</li> <li>Year 3 – Pupils should be taught:         <ol> <li>Identify and describe the functions of different plants of flowering plants: roots, stem/trunk, leaves and flowers</li> <li>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.</li> <li>Investigate the way in which water is transported within plants</li> <li>Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.</li> </ol> </li> </ol>
Scier	nce <i>whole school</i> Focus days – 1 per	term
Year 1/2 focus: Outdoor learning – working	Year 1/2 focus: working scientifically –	Year 1/2 Focus: Outdoor learning - working
Scientifically – Plants	Materials	scientifically – Animals, including humans
Pupils should:	Pupils should:	Pupils should:
Use the local environment to explore and		Use the local environment to explore and
answer questions about plants growing in		answer questions about animals in their



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their habitat. They should become familiar		
with common names of flowers, examples of		
deciduous and evergreen trees, and plant		
structures (flowers, petals, fruit, roots, bulb		
seed, trunk, branches, stem)		

Perform a simple test to explore a question: What is the best material for... an umbrella, curtains, bookshelf, gymnast leotard..? habitat. Use their observations to compare and contrast animals describing how they identify ad group them: what they eat, use of senses to compare textures, sounds & smells.

#### Year 3 focus: Rocks

Pupils will be taught to:

- 1. Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties.
- 2. Describe in simple terms how fossils are formed when things that have loved are trapped within rock.
- 3. Recognise that soils are made from rock and organic matter.

#### Year 3 focus: Light

Pupils will be taught:

- 1. Recognise that they need light in order to see things and that dark is the absence of light
- 2. Notice that light is reflected from surfaces.
- 3. Recognise that light from the sun can be dangerous and that there are ways to protect their eyes.
- 4. Recognise that shadows are formed when the light for a light source is blocked by a solid object.
- 5. Find patterns in the way that the size of shadows change.

## Year 3 focus: Forces and Magnets

Pupils will be taught:

- 1. Compare how things move on different surfaces.
- 2. Notice that some forces need contact between two objects, but magnetic forces can act at a distance.
- 3. Observe how magnets attract or repel each other and attract some materials and not others.
- 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.
- 5. Describe magnets as having two poles
- 6. Predict whether two magnets will attract or repel each other, depending on which poles are facing.