



Topic Area	F.S.	Year 1	Year 2	Year 3
Seasonal Changes	<ul style="list-style-type: none"> *Comments and asks questions about aspects of their familiar world such as the place where they live or the natural world. *Can talk about some of the things they have observed such as plants, animals, natural and found objects. 	<ul style="list-style-type: none"> *observe changes across the four seasons. *observe and describe weather associated with the seasons and how day length varies. 		See skills doc for BJS
Everyday Materials	<ul style="list-style-type: none"> *Beginning to be interested in and describe the texture of things. *Experiments to create different textures. *Understands that different media can be combined to create new effects. *Manipulates materials to achieve a planned effect. *Selects tools and techniques needed to shape, assemble and join materials they are using. 	<ul style="list-style-type: none"> *distinguish between an object and the material from which it is made. *identify and group a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. *describe the simple physical properties of a variety of everyday materials. *compare and group together a variety of everyday materials on the basis of their simple physical properties. 	<ul style="list-style-type: none"> *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. <i>*explore and identify absorbent and impermeable/waterproof materials (perfect Buxton rain jacket).</i> 	
Living Things and Their Habitats	<ul style="list-style-type: none"> *Can talk about some of the things they have observed such as plants, animals, natural and found objects. *Shows care and concern for living things and the environment. 		<ul style="list-style-type: none"> *explore and compare the differences between things that are living, dead, and things that have never been alive. *identify that most living things are suited to their habitat and describe how different habitats 	

			<p>provide for the basic needs of different kinds of animals and plants, and how they depend on each other.</p> <p>*identify and name a variety of plants and animals in their habitats, including micro- habitats.</p> <p>*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.</p> <p><i>*consider what (features) makes living things perfectly adapted to their habitat.</i></p> <p><i>*to learn, observe and document how polar bears and cacti have evolved to survive in their habitats.</i></p>	
<p>Animals including Humans</p>	<p>*Identify and name a variety of common animals found in a particular habitat e.g. farm, jungle, ocean etc.</p> <p>*Identify and name a variety of local minibeasts.</p> <p>*They make observations of animals and explain why some things occur, and talk about changes.</p>	<p>*identify and name (observable features) a variety of common animals including fish, amphibians, reptiles, birds and mammals.</p> <p>*identify and name a variety of common animals that are carnivores, herbivores and omnivores.</p> <p>*describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets).</p> <p>*identify, name, draw and label the basic parts of the human body and say which part of the</p>	<p>*to know that animals, including humans, have offspring which grow into adults.</p> <p>*to notice the main changes that animals, including humans go through as grow/age.</p> <p>*find out about and describe the basic needs of animals, including humans, for survival (water, food and air).</p> <p>*describe the importance for humans of exercise, eating a balanced diet and hygiene.</p> <p><i>*describe how animals, including humans, grow over time (on-going experiment: measuring self, observing changes over time).</i></p>	<p>*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.</p> <p>*identify that humans and some other animals have skeletons and muscles for support, protection and movement.</p>

		body is associated with each sense.		
Plants	They make observations of plants and explain why some things occur, and talk about changes.	<p>*identify and name a variety of common wild and garden plants, including deciduous and evergreen trees.</p> <p>*identify and describe the basic structure of a variety of common flowering plants, including trees.</p>	<p>*observe and describe how seeds and bulbs grow into mature plants</p> <p>*find out and describe plants' needs for survival (water, light and a suitable temperature to grow and stay healthy) and the impact of changing those things.</p> <p>*to understand and observe the changes seeds and bulbs go through as they grow into mature plants.</p> <p><i>*identify and label the basic parts of a flowering plant.</i></p> <p><i>*to classify plants using a simple key.</i></p> <p><i>*to investigate water transportation in vascular and nonvascular plants.</i></p>	<p>*identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers</p> <p>*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.</p> <p>*investigate the way in which water is transported within plants.</p> <p>*explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.</p>
Forces and Magnets			<p><i>*compare how things move on different surfaces.</i></p> <p><i>*to explore the forces of pushing, pulling and twisting.</i></p> <p><i>*to understand that friction/resistance slows down or stop moving objects.</i></p>	<p>*compare how things move on different surfaces.</p> <p>*notice that some forces need contact between two objects, but magnetic forces can act at a distance.</p> <p>*observe how magnets attract or repel each other and attract some materials and not others.</p> <p>*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.</p>

				<p>*describe magnets as having two poles.</p> <p>*predict whether two magnets will attract or repel each other, depending on which poles are facing.</p>
Electricity			<p><i>*identify common appliances that run on electricity.</i></p> <p><i>*construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.</i></p> <p><i>*identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery.</i></p>	
Rocks				<p>*compare and group together different kinds of rocks on the basis of their appearance and simple physical properties.</p> <p>*describe in simple terms how fossils are formed when things that have lived are trapped within rock.</p> <p>*recognise that soils are made from rocks and organic matter.</p>
Light				<p>*recognise that they need light in order to see things and that dark is the absence of light.</p> <p>*notice that light is reflected from surfaces.</p> <p>*recognise that light from the sun can be dangerous and that there are ways to protect their eyes.</p> <p>*recognise that shadows are formed when the light from a light source is</p>

				blocked by an opaque object. *find patterns in the way that the size of shadows change.
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**Italicised areas denote B.I.S.-specific areas of Science Knowledge Progression*