

Understanding the world (Science) Sequencing Document - Year R (2021-2022)



Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	<i>Once upon a time</i>	<i>Sparkle and shine</i>	<i>Dangerous Dinosaurs</i>	<i>Puddles and rainbows</i>	<i>Let's explore</i>	<i>Build it up</i>
Enquiry Questions:	<i>What properties to different materials have? (Materials)</i>	<i>What does shiny mean? (Light)</i>	<i>What did dinosaurs eat? What happens when a volcano erupts? (Habitats)</i>	<i>What is weather? (Weather)</i>	<i>What grows in our environment? (Plants)</i>	<i>Which materials are best for building? (Materials)</i>
Understanding the world EYFS framework	<i>-Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.</i>	<i>-Sort and group materials and resources and talk about how they are similar or different. -Explore the natural world around them, making observations and drawing pictures of animals and plants.</i>	<i>-Explore the natural world around them, making observations and drawing pictures of animals and plants.</i>	<i>-Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.</i>	<i>-Describe their immediate environment using knowledge from observation, discussion, stories, non-fiction texts and maps.</i>	<i>Describe their immediate environment using knowledge from observation, discussion, stories, non-fiction texts and maps.</i>
Knowledge content	<i>-Living things change over time. This includes growth and decay. -Some materials are magnetic, which means that they are attracted to (pull towards) a magnet. Some metals are magnetic. Other materials are non-magnetic, such as wood, dough and glass.</i>	<i>-Shiny materials reflect light. Non-shiny objects do not reflect light. -Objects are made from different materials. Everyday materials include, wood, plastic, glass, fabric, metal and stone. Materials have different properties.</i>	<i>-A shadow is the same shape as the object that makes it. Shadows change during the day. -Carnivores are animals that eat other animals. Herbivores are animals that eat plants. -Volcanos erupt when the magma leaves the ground and becomes lava.</i>	<i>-There are four seasons in the United Kingdom: spring, summer, autumn and winter. Each season has typical weather patterns. -Spring is one of the four seasons. You can get all types of weather in the spring. -Natural phenomena include weather, shadows, rainbows, clouds, flooding and waves.</i>	<i>-Litter has a harmful effect on the areas where we live, work and play. People need to put their rubbish into the bin and not throw it on the ground. -Plants need water, soil and sunshine to grow. -How plants grow.</i>	<i>- Objects can be compared and grouped according to their shape, colour, material or use. - Objects are made from different materials. Everyday materials include, wood, plastic, glass, fabric, metal and stone. Materials have different properties.</i>
Skills content	<i>-Explore the natural world around them and give simple descriptions, following observation, of changes. -Identify that materials have different properties and explore and sort magnetic and non-magnetic materials through play and exploration.</i>	<i>-Name and sort everyday items into groups of the same material. -With support, observe, record and talk about materials and living things.</i>	<i>-Make a shadow bigger or smaller using toys, play equipment and a light source. -Represent scientific observations by mark making, drawing or creating simple charts and tables. Offer explanations for why things happen, making use of vocabulary, such as, because, then and next. -Mix ingredients to cause a reaction.</i>	<i>-Record observations about the way the local environment changes throughout each season. -Name and describe natural phenomena, such as the size of shadows, the colours of a rainbow, the speed of clouds moving across the sky and the strength of a wave.</i>	<i>-Describe ways to look after the immediate environment. -Understand the life cycle of a plant.</i>	<i>- Compare and group objects and materials according to simple given criteria. - Name and sort everyday items into groups of the same material.</i>
Sequence of learning:	<i>1- Exploring apples and change over time. 2- Exploring materials- waterproof, magnetic</i>	<i>1-Sorting materials 2-Exploring light and the effect it has on objects. 3-Is it shiny?</i>	<i>1-Shadow dinosaurs 2-Carnivore or herbivore? 3-Volcano eruption</i>	<i>1-Types of weather 2-It's raining 3-Water cycle</i>	<i>1-How do we care for our environment? 2-Life cycle of a plant 3-Planting seeds 4-Caring for plants</i>	<i>1-Which materials shall we build with? 2-Sorting materials</i>
Vocabulary:	<i>Explore Investigate Change Decay magnetic Waterproof Materials fruit observe practical enquiry predict differences similarities question explain predict what might happen</i>	<i>observe practical enquiry predict differences similarities question explain predict what might happen light shiny effect dull metal plastic shine reflect reflection</i>	<i>observe practical enquiry predict differences similarities question explain predict what might happen shadow light light source larger smaller volcano erupt eruption reaction mixing</i>	<i>observe practical enquiry predict differences similarities question explain predict what might happen weather symbols rain snow sunshine storm clouds precipitation water cycle spring</i>	<i>observe practical enquiry predict differences similarities question explain predict what might happen life cycle plant environment growth soil water sunshine planting litter recycle</i>	<i>observe practical enquiry predict differences similarities question explain predict what might happen materials sorting build waterproof metal plastic fabric suitable strong patterns</i>