



Granby Primary School

Science Curriculum Map



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery	<p>Seasonal changes: Autumn and hibernation. Autumn leaves and trees. Text: <i>A Wet Walk</i></p>	<p>Space and Planets: Stars, the moon and planets. Text: <i>Goodnight Spaceman</i> Exploring habitats and nocturnal animals: Texts: <i>Owl Babies</i> and <i>Night to Day</i>. Hibernation and bears. Text: <i>Peace at Last</i></p>	<p>Seasonal Changes: Winter and cold, ice and snow. Changing materials: Ice melting Text: <i>One Snowy Night</i> Healthy Eating: Different types of fruit. Text: <i>Handa's Surprise</i></p>	<p>Changing Materials: Making biscuits Text: <i>Gingerbread Man</i> Forces: Push and pull Text: <i>Little Red Hen</i> and <i>Enormous Turnip</i></p>	<p>Seasonal Changes: Spring Life Cycles: Tadpoles and eggs. Text: <i>The Very Hungry Caterpillar</i> Minibeasts: Hunt at Aylestone Meadows Text: <i>Creepy Crawly Calypso</i> Plants: Seeds. Caring for plants. Text: <i>Jack and the Beanstalk</i> Habitats: Under the sea Text: <i>The Rainbow Fish</i></p>	<p>Seasonal changes: Holidays and summer Text: <i>Maisy Goes on Holiday</i> Habitats: In the Meadow. Text: <i>Over in the Meadow</i> On the farm. Farm Trip Texts: <i>A Farmer's life for me</i></p> <p>Granby STEM Day</p>
Reception	<p>Seasonal Changes: Autumn. Text: <i>Amazing Autumn</i> Human Body: Looking after our teeth and oral hygiene. Visiting the dentist. Text: <i>The Boy who Hated Toothbrushes</i>. <i>Peppa Pig: The Dentist Trip</i></p>	<p>Habitats and Hibernation: The meadows in Aylestone, trees and wooded areas. Text: <i>We're Going on a Bear Hunt</i>, <i>The Gruffalo</i></p> <p>Forest School begins</p>	<p>Seasonal Changes: Winter: Freezing and melting. Text: <i>Sneezy the Snowman</i> Space: The moon landing and the solar system. Text: <i>Whatever Next</i> Materials: Materials for building Text: <i>3 little pigs</i> Forest School</p>	<p>Seasonal Changes: Spring Life Cycles: Living eggs in class hatch into chicks. Text: <i>Ugly Duckling</i> Healthy Food: Vitamins and protein. Exercise and our heart. Text: <i>The Healthy Wolf</i> Forest School</p>	<p>Minibeasts: Explore at forest school. Text: <i>Mad about Minibeasts</i> Plants: How to plant and care for seeds. Text: <i>Jasper's Beanstalk</i> and <i>How to care for a Sunflower</i> Floating and sinking: Text: <i>Commotion in the Ocean</i> Forest School</p>	<p>Seasonal changes: Holidays and summer Text: <i>Topsy and Turvey go on holiday</i> Habitats: Fram animals, crops and farmers. Farm trip Granby STEM Day Forest School</p>
Year 1	<p>Animals including humans: Identify, name, draw and label basic parts of body. Seasons: Autumn – observe changes across 4 seasons. Observe and describe weather and length of day.</p>	<p>Materials: identify and name wood, plastic, glass, metal, water and rock. Describe and compare physical properties of everyday materials. best material for Ted? Seasons: Winter</p>	<p>Working scientifically: how much rain has fallen? Collect data and make tables and charts about the weather.</p>	<p>Plants: Identify and name common wild and garden plants including deciduous and evergreen. Identify basic structure of plants and trees. Seasons: Spring</p>	<p>Animal groups: Name common animals that are herbivores, carnivores & omnivores. Identify common animals including fish, amphibians, reptiles, birds and mammals.</p>	<p>Animal groups continued...</p> <p>Granby STEM Day</p>
Year 2	<p>Animals including humans: Notice that offspring grow into adults; describe basic needs of animals and humans: water, food and air.</p>	<p>Animals including humans cont: Know importance of exercise, types of food and hygiene.</p>	<p>Use of everyday materials: Identify suitability of variety of materials for particular uses based around Antarctic expedition. Explore reduce, reuse, recycle as creative and unusual uses for everyday materials.</p>	<p>Living things and their habitats: Classify living/ dead; explore habitats; identify plants and animals in habitats; use simple food chains. Trip: Conkers</p>	<p>Plants: Observe how seeds grow into mature plants; find out that plants need water, light and a suitable temperature to grow/ stay healthy.</p>	<p>Revisit changing materials: Find out how solid objects can be changed. Scientists: John Dunlop, Charles Macintosh or John McAdam.</p> <p>Granby STEM Day</p>
Year 3	<p>Animals including humans: that animals and humans need nutrition, food groups, balanced diet, skeleton and muscles, healthy hearts.</p>	<p>Magnets and forces: Note magnetic forces act at a distance, observe magnetics attract/ repel certain materials; group non-magnetic/ magnetic materials, learn about poles.</p>	<p>Plants: Identify parts of a plant, requirements of plants for growth (air, light, nutrients from soil and room to grow), how water is transported and pollination/ seed dispersal.</p>	<p>Light: Recognise that light is needed to see, light is reflected from surfaces, light can be dangerous and how to protect eyes, how shadows are formed and how they can change size.</p>	<p>Rocks: Compare and group rocks, properties of different rocks, how fossils are formed, recognise soils are made from organic matter.</p>	<p>Each Year 3 topic will be extended using STEM activities also. There will be an overlap of weeks into other half terms.</p> <p>Granby STEM Day</p>
Year 4	<p>Animals including humans: Describe functions of digestive system, identify teeth types in humans and functions. Construct/ interpret food chains: producers, predators, prey.</p>	<p>Sound: identify sounds are vibrations, recognise sound travels through something, find patterns between pitch and volume of sounds, recognise that sound decreases from source.</p>	<p>States of matter: compare and group materials based on: solids, liquids and gases, changing state of materials when heated and cooled, identify evaporation/ condensation in water cycle.</p>	<p>Electricity: Common appliances which run on electricity, simple series circuits and components, incomplete circuits, switches and their functions, electrical conductors and insulators.</p>	<p>Living things and their habitats: Identify and name living things in an environment and group and classify living things using classification keys.</p> <p>Lancaster School: STEM sessions</p>	<p>Living things and their habitats continued... Recognise that environments can change and the danger this can pose to living things. Granby STEM Day Habitat trip</p>
Year 5	<p>Forces: Understand gravity, air resistance, water resistance and friction. Recognise some mechanisms: levers, pulleys and gears increase the effect of a force.</p>	<p>Earth and Space: Describe movement of the earth, planets, and moon relative to the sun. Understand moon's movement relative to Earth. Earth's rotation. Explain night and day. Lancaster School: Forensic science sessions</p>	<p>Living things and their habitats: Lifecycles of mammals, amphibians, insects and birds. Life process and reproduction in plants and animals.</p>	<p>Light: How does light travel? How do our eyes work? Recognise that light reflects from objects into our eyes, how light travelling in a straight line creates shadows.</p>	<p>Animals including humans: Describe changes as humans grow and develop including puberty and old age.</p>	<p>STEM Activities/ finishing off animals including humans.</p> <p>Granby STEM Day</p>
Year 6	<p>Properties and change of materials: classifying materials based on properties, dissolving, reversible and irreversible changes, separating mixtures.</p>	<p>Animals including humans: How the circulatory system works. Function of heart, blood, vessels. How do diet, exercise and drugs impact on our bodies? How nutrients and water are transported.</p>	<p>Living things and their habitats: How are living things classified into broad groups including microorganisms and plants.</p>	<p>Evolution and inheritance: How living things have changed over time. How fossils provide information. How offspring might vary from parents. How animals and plants adapt to their environments.</p>	<p>Electricity: Associate brightness of bulb/ loudness of buzzer to number of cells, give reasons for how components in circuits function, switches, symbols in circuit diagrams.</p>	<p>STEM activities.</p> <p>Granby STEM Day</p>