

Fairisle Junior School Science Curriculum Overview – 2022-2023

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3	Animals and Humans: Nutrition, eating & the function of skeletons & muscles	Forces and Magnets: Comparing how things move on different surfaces, exploring different forces including magnets	Rocks: Comparing & grouping rocks according to appearance & properties, different soils & fossil formation		Plants: Functions of different parts of a plant, life & growth, water transportation & the life cycle of flowering plants	Light: Reflections, the danger of the sun, shadow formation, patterns & sizes
Year 4	Sound: How sounds are made – vibrations, the ear, patterns between pitch & volume and features of objects	States of Matter: Comparing and grouping materials including solids, liquids & gases, observing changes of state when heated/cooled, evaporations and condensation in the water cycle	Living Things and Their Habitats: Classification keys, changing environments & the dangers to living things	Animals (including humans): Constructing and interpreting food chains, identifying producers, predators and prey	Animals (including humans): Functions of the digestive system in humans, different types of teeth and their functions	Electricity: (Crumble) Identify electricity in the home, construct circuits including switches & explore conductors and insulators
Year 5	Earth & Space: Describing the movement of the Earth – Sun & Solar System, Moon, describing the Sun, Earth & Moon, linking Earth's rotation to day & night Forces: Gravity	Living things and their habitats: Differences in the life cycles of mammals, amphibians, insects and birds Life process of reproduction in plants and animals	Animals, including humans: The changes humans develop to old age	Properties and changes of materials: Comparing and grouping materials based on their properties Separating mixtures using knowledge of solids, liquids and gases, Changes of state (reversible changes)		Forces: Identifying the effects of air resistance, water resistance & friction that act between moving surfaces, recognising that some mechanisms allow smaller force to have greater effect
Year 6	Animals including humans: Circulatory System Impact of diet, exercise, drugs and lifestyle Transportation of nutrients and water within animals Journey of a red blood cell	Electricity: Voltage of cells in a circuit Comparing and giving reasons for variations in how components function, Symbols of circuit diagrams	Living things and their habitats: Classification of living things according to observable characteristics and similarities and differences Reasons for classifications	Evolution and inheritance: Information from fossils Offspring of the same kind Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution		Light: How light travels in straight lines How light is reflected How we see and how shadows are created Animals including Humans: Drugs (PSHE)