





Halebank C of E Primary School 2003 -2005 Cornerstones Maestro Implementation Schedule for Science

A = 2023-2024 B = 2024-2025	Autumn Term	Spring Term	Summer Term	
Reception – Cherry Class	<p><u>Exploring Autumn</u>  The natural world <u>Once Upon a Time</u>  The natural world <u>Sparkle and Shine</u>  The natural world</p>	<p><u>Starry Night</u>  The natural world <u>Winter Wonderland</u>  The natural world <u>Dangerous Dinosaurs</u>  The natural world <u>Puddles and Rainbows</u>  The natural world</p>	<p><u>Sunshine and Flowers</u>  The natural world <u>Shadows and Reflections</u>  The natural world <u>Big Wide World</u>  The natural world <u>Splash</u>  The natural world</p>	
Willow Class Year 1 / 2 Cycle A	<p><u>Shade and Shelter- [Everyday Materials]</u>  Naming everyday materials; Properties and uses of materials. - Materials; Natural materials; Human-made materials; Grouping materials; Properties of materials; Venn diagrams; Comparing and testing materials; Working scientifically – Identifying and classifying, observing changes over time,</p>	<p><u>Seasons</u>  Seasonal changes in deciduous and evergreen trees; Seasonal changes in animals; Weather; Seasonal weather; Day length; Investigating the Sun; Measuring wind; Measuring temperature; Measuring precipitation; Weather forecasting; Working scientifically – Observing changes over time, Identifying, and classifying, Pattern</p>	<p><u>Plant Parts</u>  Wild and garden plants; Seasonal changes; Plant parts; Seeds and bulbs; Investigating leaves; Importance of plants; Working scientifically – Identifying and classifying, observing changes over time, Pattern seeking, Research, Comparative test. [Animal Parts] - Animals' body parts; Animal groups – amphibians, birds, fish, invertebrates, mammals,</p>	

	<p>Comparative test, Pattern seeking, Research.</p> <p>Human Senses</p>  <p>- Humans; Labelling body parts; Counting body parts; Similarities and differences in humans; Five senses – sight, hearing, touch, smell, taste; Senses and danger; Sensory loss and assistive tools; Sense of touch investigation; Working scientifically – Identifying and classifying, Comparative test, Pattern seeking, Research</p>	<p>seeking, Comparative test, Research</p>	<p>reptiles; Carroll and Venn diagrams; Pets; Carnivores, herbivores, and omnivores; Earthworms; Working scientifically – Identifying and classifying, Comparative test, Pattern seeking, Research</p>	
<p>Willow Class Year 1 / 2 Cycle BB</p>	<p>Human Survival –</p>  <p>Human life cycle; Human needs for health and survival; Healthy lifestyle; Bodily hygiene routines; Handwashing investigation; How germs spread; Working scientifically – Identifying and classifying, observing changes over time, Comparative test, Pattern seeking, Research.</p>	<p>Uses of Materials</p>  <p>Identifying materials and their properties; Shaping materials; Uses of materials; Linking properties to use; Sustainability and recycling; Working scientifically – Identifying and classifying, Pattern seeking, Comparative tests, Research.</p> <p>Plant Survival–</p>	<p>Animal Survival-</p>  <p>Habitats; Invertebrates and invertebrate groups; Microhabitats; Animal needs for survival; Food chains; Human impact on habitats; Animal offspring; Lifecycles – amphibians, birds, invertebrates, mammals and reptiles; Seasonal changes in animals; Habitat improvements; Working scientifically – Identifying</p>	

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	<p><u>Habitats –</u></p>  <p>Exploring habitats; Living and non-living things; Identifying plants and animals in a habitat; Animal shelter and food; Food chains; Animal adaptations; Camouflage investigation; Plant adaptations; Working scientifically – Identifying and classifying, Research, Pattern seeking</p>	 <p>Plant parts; Seasonal changes in plants; Investigating germination; Investigating plant growth; Unusual plants; Working scientifically – Observing changes over time, Identifying, and classifying, Pattern seeking, Comparative test, Research</p>	<p>and classifying, observing changes over time; Pattern seeking; Research</p>	
<p>Beech Class Year 3 / 4 Cycle A</p>	<p><u>Animal Nutrition and the Skeletal System</u></p>  <p>Living things; Carnivores, herbivores and omnivores; Human diet; Human nutrition and food groups; Fatty foods; Seasonal changes in animals' diets; Human skeleton; Joints; Muscles; Skeleton types – endoskeletons and exoskeletons; Working scientifically – Identifying and classifying, Observing changes over time, Comparative test, Pattern seeking, Research</p>	<p><u>Rocks; Fossils; Soils. [Forces and Magnets]</u></p>  <p>- Pushing and pulling forces; Contact forces; Friction; Force meters; Bar charts; non-contact forces; Magnetism; Magnetic attraction and repulsion; Magnetic fields; Magnetic properties; Magnetic Earth; Uses of friction and magnetism; Working scientifically – Identifying and classifying, Pattern seeking, Comparative tests, Research</p>	<p><u>Greenhouse –</u></p> <p>DT link Requirements of plants for growth and survival; Testing properties of materials; Observation</p> <p><u>Plant Nutrition and Reproduction</u></p>  <p>Plant parts; Root systems; Stems; Water transport; Investigating leaves; Life cycle of flowering plants; Flower parts; Researching pollination; Seed formation and dispersal; Variation in plant needs; Working scientifically –</p>	

			<p>Identifying and classifying, observing changes over time, Pattern seeking, Research, Comparative test.</p> <p><u>Light and Shadows –</u></p>  <p>Light; Light sources and reflectors; Reflective and non-reflective materials; Sun safety and protection; Shadows; Opaque, transparent and translucent materials; Changes in shadows; Working scientifically – Identifying and classifying, observing changes over time, Comparative tests, Pattern seeking, Research</p>	
<p>Beech Class Year 3 / 4 Cycle B</p>	<p><u>Food and the Digestive System</u></p>  <p>Producers and consumers; Ecosystems; Food chains and food webs; Changes in ecosystems; Digestive system; Teeth types – incisors, canines, premolars, molars; Teeth health and dental hygiene; Working</p>	<p><u>States of Matter – Water cycle; Habitats; Changing environments.</u></p>  <p>Classifying solids, liquids and gases; Unusual materials; Particle theory; Change of state; Melting, freezing, evaporation and condensation; States of water; Measuring temperature; Investigating</p>	<p><u>Electrical Circuits and Conductors</u></p>  <p>Sources of electricity; Electrical devices; Electrical components; Series circuits; Complete and incomplete circuits; Conductivity; Conductors and insulators; Wired plugs; Incandescent light bulbs; Future of electricity;</p>	

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	<p>scientifically – Identifying and classifying, Observing changes over time, Comparative test, Pattern seeking, Research.</p> <p>Sound</p>  <p>Sound facts; Investigating sound; Sound waves; How we hear sounds; Muffling sound investigation; Volume and distance investigation; Changing the volume of sound investigation; Changing the pitch of sound investigation; Investigating sound further; Working scientifically – Identifying and classifying, Comparative test, Pattern seeking, Research</p>	<p>melting; Line graphs; Researching melting and boiling points; Working scientifically – Observing changes over time, Identifying and classifying, Pattern seeking, Comparative test, Research.</p> <p>Grouping and Classifying - Types of classification:</p>  <p>Taxonomy; Understanding and creating classification keys; Animal kingdom; Plant kingdom; Classifying new discoveries; Working scientifically – Identifying and classifying, Pattern seeking, Research</p>	<p>Working scientifically – Identifying and classifying, Pattern seeking, Comparative test, Research</p>	
<p>Oak Class Year 5 / 6 Cycle A</p>	<p>Forces and Mechanisms</p>  <p>Contact and non-contact forces; Gravity; Mass and Weight; Discovering gravity – important scientists; Friction; Air resistance; Water resistance; Mechanisms – levers, pulleys, gears;</p>	<p>Geography Link Food chains and webs; Life cycles; Plant reproduction; Growing plants; Modern farming</p> <p>Human Reproduction and Ageing</p> 	<p>Properties and Changes of Materials</p>  <p>Properties of materials; Thermal conductivity; Measuring temperature; Thermal insulators; Solubility; Heterogeneous and homogeneous mixtures; Sieving; Filtration;</p>	

	<p>Investigating forces and mechanisms; Working scientifically – Identifying and classifying, observing changes over time, Comparative tests, Research, Pattern seeking.</p> <p><u>Earth and Space -The Solar System:</u></p>  <p>Scientists of the past who discovered how the Solar System works; The Earth, Sun and Moon; Planets and stars are spherical; Daytime and night time; Sundials; Day length and the seasons; Times of the day around the world; The phases of the Moon; Lunar and solar eclipses; Working scientifically – Identifying and classifying, Research, Changes over time, Pattern seeking</p>	<p>Animal life cycles; Stages and processes; Classifying mammals; Mammalian life cycles; Interpreting scatter graphs; Human life cycle; Human gestation stage; Human juvenile stage; Human adolescent stage; Puberty; Venn diagrams; Interpreting line graphs; Human sexual reproduction; Human ageing; Working scientifically – Observing changes over time, Identifying, and classifying, Pattern seeking, Comparative test, Research</p>	<p>Evaporation; Separating unusual mixtures; Reversible and irreversible changes; Innovative materials; Working scientifically – Identifying and classifying, observing changes over time, Comparative tests, Research, Pattern seeking</p>	
<p>Oak Class Year 5 / 6 Cycle B</p>	<p><u>Circulatory System</u></p>  <p>Bodily systems; Circulatory system – role and main parts; Heart – structure and function; Blood – components and functions; Blood vessels –</p>	<p><u>Electrical Circuits and Components</u></p>  <p>Series circuits; Circuit components; Recognised circuit symbols; Investigating circuit components; Electric</p>	<p><u>Light Theory –</u></p>  <p>Light facts; How light travels; Light, sight and the human eye; Visible light; Perceiving colour; Shadows; Reflections; Plane, concave, and</p>	

	<p>structure and function; Measuring heart rate; Proving a hypothesis; Heart rate investigation; Classifying foods; Effects of smoking, alcohol, and drugs; Heart rate recovery investigation; Working scientifically – Identifying and classifying, Comparative test, Pattern seeking, Research</p>	<p>current; Voltage; Researching cells and batteries; Investigating voltage changes; Working scientifically – Identifying and classifying, Pattern seeking, Comparative test, Research</p>	<p>convex mirrors; Measuring light; Refraction; Working scientifically – Identifying and classifying, Comparative tests, Pattern seeking, Research.</p> <p>Evolution and Inheritance</p>  <p>Five kingdoms, microorganisms, and viruses; Classifying fossils; Theory of evolution and evolutionary tree diagrams; Inheritance and variation – continuous and discontinuous variation; Natural selection and survival of the fittest; Adaptations in birds' beaks; Adaptations in plants; Artificial selection; Testable hypothesis; Working scientifically – Identifying and classifying, Comparative test, Pattern seeking, Research</p>	
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