

The intent of our **science** curriculum at Lyncrest is that all children will leave having explored and developed 3 key concepts in depth:

- Develop scientific **skills** and **enquiry**
- Encourage **curiosity** and **explanation**
- **Explore** and **discover** the world around them



Our science curriculum at Lyncrest Primary School has been designed and developed to sequence and build upon prior knowledge and allow for progression of skills from the Early Years through to Year 6. At Lyncrest we follow the National Curriculum, and use the Snap Science Scheme to ensure that lessons are planned sequentially and delivered so that children have the opportunity to revisit and build upon their prior learning so that they become fluent in understanding key scientific skills and concepts. This will ensure that children leave Lyncrest with a scientific understanding that is within their local area and also the wider world.

Our long term map shows the overview of topics taught in each year group and the progression within those areas. We plan for first hand opportunities that will enhance and support our children and to build cultural capital, such as visitors, exploration of our local area and visits to places further afield.

We recognise that our community provides a rich landscape and will make every effort to support learning in the local area to allow children to make links with our local area and the wider world.

At the end of their Primary School Education, a Lyncrest Scientist will know, understand and apply the following vocabulary. This vocabulary is progressive and builds on previously taught vocabulary.

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Amphibian	Adult	Absorb	Abdomen		Adaptation
Animal	Alive	Ammonite	Antennae	Adhesive	Analyse
Bird	Baby	Attracts	Arachnids	Aging	Arteries
Branch	Balanced	Beam	Battery	Asexual	Beam
Bud	Behaviour	Berry	Biodiversity	Axis	Behaviour
Carnivore	Bend	Carpel	Blossom	Brittle	Biomass
Changes	Bulb	Conclusion	Breed	Change of state	Botany
Classify	Bulb	Crystal	Bulb	Construction	Caffeine
Cold	Calcium	Dairy	Carbon dioxide	Contrast	Capillaries
Deciduous	Carbohydrate	Disperse	Cell	Corrode	Characteristics
Different	Characteristic	Explanation	Chemical	Crescent	Circuit diagram
Evergreen	Compare	Fibre	Circuit	Criteria	Circulatory
Fish	Conditions	Force	Classification	Decompose	Common
Flower	Contract	Fossil	Climate	Dissolve	Consequences
Glass	Data	Fossilise	Compound	Durability	Cross breed
Healthy	Dull	Germinate	Condense	Durability	De-oxygenated
Herbivore	Elastic	Granule	Conductor	Fertilisation	Dispersion
Hot	Exercise	Infra-red	Consume	Fertilise	Distinguishing
Human	Fats	Joint	Consumer	Filter	Effects
Identification	Flexible	Light ray	Crustaceans	Flammable	Environmental
Identify	Food chain	Luminous	Deforestation	Floating	Family
Invertebrate	Germinate	Magnet	Destruction	Fragile	Filament
Leaf	Growth	Mineral	Digestion	Friction	Fossil fuels
Mammal	Habitat	Muscle	Distinguish	Galaxy	Fungi
Material	Hard	Nectar	Electricity	Gender	Genus

Metal	Heartrate	Nutrients	Endangered	Genetic	Illegal
Needs	Hygiene	Observation	Environment	Gravity	Inheritance
Plant	Infant	Organic	Enzyme	Group	Inverted
Plastic	Life cycle	Particle	Evaporate	Hibernate	Justify
Property	Living	Pollen	Features	Inflate	Juvenile
Reptile	Material	Pollinate	Food web	Insoluble	Kingdom
Rock	Mature	Pollination	Freezing	Latitude	Legal
Roots	Micro-habitat	Predict	Gas	Lever	Medicine
Rough	Needs	Properties	High	Longitude	Migrate
Season	Observe	Protect	Incisor	Lunar	Nymph
Senses	Opaque	Pull	Insulator	Magnetic	Off-spring
Shoot	Protein	Push	Intestine	Manufactured	Oxygenated
Similar	Record	Reflect	Leaf skeleton	Manufactured	Peer pressure
Smooth	Rigid	Repel	Liquid	Mass	Periscope
Stem	Seed	Root hair	Low	Metamorphosis	Plasma
Survival	Seeds	Roughage	Melting	Natural	Predict
Temperature	Shiny	Season	Molar	Newton meter	Pupae
Tree	Soft	Seedling	Molluscs	Nocturnal	Refraction
Trunk	Soil	Sepal	Motor	Non-reversible	Renewable
Vertebrate	Species	Shadow	Myriapods	Oxidise	Resistor
Weather	Squash	Skeleton	Negative	Planet	Solvents
Wood	Stretch	Spine	Oesophagus	Pollinator	Spectrum
	Sugar	Stalk	Oxygen	Pregnant	Terminal
	Survey	Stamen	Particles	Produce	Transformer
	Survival	Support	Petal	Propagate	Transportation
	Test	Texture	Pitch	Reaction	Valve
	Transparent	Translucent	Pluck	Reproduce	Variation
	Twist	Twist	Pollution	Reproduction	Vessels
	Variety	Variation	Positive	Resistance	
	Variety	Veins	Predator	Resistant	
	Virus	Weathering	Prey	Reversible	
			Producer	Rotate	
			Simple	Rust	
			Solid	Saturated	
			Sound	Separate	
			Strength	Sex	
			Switch	Sexual	
			Thorax	Sinking	
			Twig	Solar system	
			Vapour	Solidifies	
			Vibrate	Soluble	
			Viscous	Solution	
			Volume	Sperm	
			Waste	Sunrise	
			Wire	Sunset	
				Suspension	
				Thermal	
				Threatened	
				Waning	
				Waxing	
				Weight	
				Yield	

By the end of their time at Lyncrest a year 6 child will be able to:

- Demonstrate a deep understanding of science
- Display a positive and resilient attitude towards science and an awareness of the fascination of science
- Show confidence in believing that they will achieve
- Achieve the expected standard for the year group
- Have the flexibility and fluidity to link the science curriculum to different contexts and subjects
- Recognise and make relationships between different parts of the science curriculum, the whole school curriculum and the wider world
- Be able to create and test a hypothesis in a systematic approach using appropriate scientific equipment and vocabulary
- To be curious about the world and how things work
- To draw conclusions and observations and question the validity of results gained
- To be able to use scientific vocabulary accurately when explaining learning

In order to support all children, including those with special educational needs, we will:

- Provide oral instructions for pupils to ensure that reading does not unduly influence assessments
- Provide progress checks so children know they are progressing towards a goal
- Give immediate feedback that is explicitly linked to the intention of the lesson
- Where possible, make activities concise and short
- Provide concrete resources and specialist resources to support learning
- Pre-teach new vocabulary and new concepts
- Provide opportunities for pupils to re-visit prior learning
- Encourage cooperative learning activities to create an atmosphere in which a true 'community of learners' is facilitated and enhanced
- Provide opportunities for discussion to ensure children are confident to talk about their learning prior to recording
- Provide access arrangements, such as a scribe or extra time, where appropriate
- Ensure activities are scaffolded in a way to allow all children to become successful

Science at Lyncrest

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Year 1	Everyday Materials							Our Changing World: Seasons					Our Changing World: Plants				Using our Senses					Looking at Animals						Plant Detectives				Our Changing World: Animal Antics			SC1 Investigations				
Year 2	Our Changing World					What is in your Garden?		Materials: Good Choices						The Apprentice Gardener							Materials: Shaping Up					Take Care			Growing Up			SC1 Investigations							
Year 3	Rock Detectives						The Power of Forces				How Does Your Garden Grow?							Our Changing World					Can You See Me?					Amazing Bodies				SC1 Investigations							
Year 4	Who Am I?		Our Changing World		In a State								Good Vibrations					Switched On					Where Does All That Food Go?						Human Impact										
Year 5	Everyday Materials					Marvellous Mixtures			Get Sorted			All Change!			Circle of Life					The Earth and Beyond					Feel the Force				Our Changing World		Reproduction in Plants and Animals								
Year 6	Danger! Low Voltage					Light up your World						The Nature Library						Body Pump				Our Changing World		Body Health				Everything Changes											