

KLT LTM for Science – Two-year cycle (2025 – 2026 and 2026 – 2027)

	Autumn	Spring	Summer
Nursery/Reception Cycle A (2025 – 2026)	<p>Me and My Community This project supports children with settling into the new rules and routines of school and encourages them to make new friends and feel confident in their class. It teaches children about being helpful, kind and thoughtful at home and at school. This project also teaches children how they are unique and special, the importance of friendship and how people in their family, school and local community are important and can help them.</p> <ul style="list-style-type: none"> • Giants • Who lives in the woods? • Wild Ones • Making Leaf Man books <p>Once Upon a Time This project supports children to develop a love of stories and reading. It encourages children to learn, retell and act out familiar and traditional tales</p> <ul style="list-style-type: none"> • Peas 	<p>Starry Night This project explores the differences in the world at night compared to during the day. It teaches children about the importance of a good night's sleep, and helps them to discover what is happening in the world while they are sleeping, including finding out about nocturnal animals.</p> <ul style="list-style-type: none"> • fall asleep? • Nocturnal Animals • Is it soft? • Special features • Night time visitors • Moonlight shadows • Why is it dark • Step 3 • Step 4 • Day and Night <p>Dangerous Dinosaurs This exciting project teaches children about the different animals that roamed Earth millions of years ago and how they are related to animals that live on Earth today.</p> <ul style="list-style-type: none"> • Prehistoric Safari • Dinosaur Shadows • Carnivore or Herbivore • Step 1 • Step 2 	<p>Sunshine and Sunflowers This seasonal project provides opportunities for outdoor learning and teaches children how to care for the plants and animals in their local environment and how to stay safe in the sun.</p> <ul style="list-style-type: none"> • Outside Explorers • Changes • Magnify • Raising Butterflies • Sunflowers • Makea Rainbow • Garden Hunt • Who's in the garden • Eco gardeners • Garden visit <p>Big Wide World This project teaches children about the global community to which they belong and explores how living things, communities and climates differ around the world.</p> <ul style="list-style-type: none"> • Animals around the world • the same sky

KLT LTM for Science – Two-year cycle (2025 – 2026 and 2026 – 2027)

<p>Nursery/Reception Cycle B (2026 – 2027)</p>	<p>Let's explore This project teaches children about the environments that they share with others, including their homes, school and places in the local community.</p> <ul style="list-style-type: none"> • What's inside? • Who lives here? <p>Marvellous machines This interest-led project teaches children about the technology that is part of their daily lives and how machines help us. The project gives children the opportunity to build and create marvellous machines</p> <ul style="list-style-type: none"> • How does it work? • How Far? • Magnets 	<p>Long Ago This project teaches children about how they have grown and changed since they were babies and how life in the past was different from today.</p> <ul style="list-style-type: none"> • Yearly Changes <p>Ready Steady Grow This project teaches children about food and farming and explores themes, including where food comes from, what plants and animals need to grow and survive and what constitutes a healthy lifestyle.</p> <ul style="list-style-type: none"> • Food and Farming • Plant and animal Sources • Snack Time • Jasper's Beanstalk • Growing Beans • Plant Partners • Seed Sort • Time to grow • Animals and their Babies • Animal Clues 	<p>Animal Safari This project teaches children about the animals that live around the world, how to look after animals and the importance of caring for our local and global environments.</p> <ul style="list-style-type: none"> • Meet the Animals • Looking After Animals • Paws and Whiskers • Scales, Fur and Feathers • Animal Babies • Which animals lay eggs? • Animal Lunch • Longest, shortest, tallest • Animal Safari • Animals around the world • Step 5 <p>On the Beach This project teaches children about the plants and animals that live at the seaside. It also explores holidays in the past and the importance of keeping safe in the Sun.</p> <ul style="list-style-type: none"> • Who's Inside? • Feeling Crabby • Who lives in a rockpool? • Who eats who? • Seabirds

KLT LTM for Science – Two-year cycle (2025 – 2026 and 2026 – 2027)

			<ul style="list-style-type: none"> • Who lives in the ocean? • Something Fishy • Sea Investigations • Seaweed • Parts and Functions • Step 1,2, 3 and 4
--	--	--	---

Year 1 / 2 Cycle B (2025 – 2026)	Sensitive Bodies <ul style="list-style-type: none"> • Body parts • The senses • Taste and touch • Sight and smell • Hearing senses in action 	Everyday materials <ul style="list-style-type: none"> • Naming materials • Material Detectives • Introduction to properties • Is it absorbent? • Is it waterproof? • Is it tough? 	Animal including humans: Comparing animals <ul style="list-style-type: none"> • Animal Groups • Describing Animals • Comparing Animals • Carnivore, herbivore or omnivore? • Jane Goodall • Pets 	Materials: Uses of everyday materials <ul style="list-style-type: none"> • Objects and materials • Which material is suitable? • Stretch it, twist it, bend it, squash it! • Testing stretchiness • Testing strength • Eco-friendly materials 	Living Things Micro habitats <ul style="list-style-type: none"> • Identifying and classifying minibeasts • Introduction to scientific enquiry • Minibeast hunt • Planning an experiment • Woodlice experiment • What is a botanist? 	Making connections: Fairy Tale Science <ul style="list-style-type: none"> • Do all animals move at the same speed? • Is the Gingerbread Man waterproof? • Is the Gingerbread Man's home waterproof? • Do all body parts have the same sense of touch? • How many towels will stop the marble being felt?
Year 1 / 2 Cycle A (2026 – 2027)	Introduction to Plants <ul style="list-style-type: none"> • What is a plant? • Parts of a plant • Wild and garden plants • Deciduous and evergreen trees • Sorting seeds • Which plant parts can you eat? 	Forces and Space: <ul style="list-style-type: none"> • Seasonal Changes • Wonderful weather • Seasonal activities • How do trees change? • Daylight hours • Observing over time • Weather reports 	Living things: Habitats <ul style="list-style-type: none"> • Life processes • It feels good to be alive • Introduction to habitats • Woodland habitats • Rainforest and ocean habitats • Food chains 	Animals including humans: life cycles and health <ul style="list-style-type: none"> • The human life cycle • Life cycles • Growth • Survival • Exercise and hygiene • Balanced diet 	Plants: Plant Growth <ul style="list-style-type: none"> • What do seeds need to grow? • Seeds and bulbs • Germination • Light and plant growth • Plant life cycle • Plant care 	Making connections: Ocean protectors <ul style="list-style-type: none"> • <i>Rockpooling</i> • <i>Life cycles of ocean animals</i> • <i>Ocean litter</i> • <i>Ocean food chains</i> • <i>Being a marine biologist</i>

Year 3/4 Cycle B (2025 – 2026)	Electricity and Circuit (Cycle A)	Materials: States of Matter <ul style="list-style-type: none"> • Solids • Liquids and gases 	Energy: Sound and vibrations <ul style="list-style-type: none"> • Vibrations • Sound waves 	Living things: Classification and changing	Plants: Plant reproduction <ul style="list-style-type: none"> • Plant growth • Structure and function 	Making connections: How does wind force affect seed dispersal?
---	--	--	---	---	--	---

KLT LTM for Science – Two-year cycle (2025 – 2026 and 2026 – 2027)

	<ul style="list-style-type: none"> Using electricity Building circuits Switching on and off Investigating electrical conductors and insulators Investigating bulb brightness Electrical safety 	<ul style="list-style-type: none"> Melting and freezing Condensing and evaporating The water cycle Climate change and the water cycle 	<ul style="list-style-type: none"> Volume Volume and distance Pitch Sound insulation 	<ul style="list-style-type: none"> Grouping living things: Vertebrates and invertebrates Grouping living things: Plants Classification keys Habitats and seasonal change Human impacts on habitats Natural changes to habitats 	<ul style="list-style-type: none"> Transporting water Flowers Evaluating an enquiry Seed dispersal 	<ul style="list-style-type: none"> Investigating seed dispersal – Planning Investigating seed dispersal – Gathering data Investigating seed dispersal – Analysing, concluding and evaluating Investigating seed dispersal – Extending Investigating seed dispersal – Presenting
<p>Year 3/4 Cycle A (2026 – 2027)</p>	<p>Energy: Light and Shadows</p> <ul style="list-style-type: none"> Sources of light What is reflection Where do shadows come from? Shadows throughout the day Investigating shadows Using light and shadows 	<p>Animals including humans: Movement and nutrition</p> <ul style="list-style-type: none"> Skeletons The bones in our body Muscles and movement Eating for survival Nutrient groups Balanced diets 	<p>Materials: Rocks and soils</p> <ul style="list-style-type: none"> Rocks appearance Rocks: physical properties Fossil formation Fossils and palaeontology Soil formation Soil layers and earthworms 	<p>Animals including humans: digestion and food</p> <ul style="list-style-type: none"> The human digestive system Human teeth Investigating dental hygiene Teeth of carnivores, herbivores and omnivores Producers predators and prey in food chains Poo clues 	<p>Forces and Magnets (Cycle B)</p> <ul style="list-style-type: none"> Pushes and pulls Friction Investigating friction Magnets Investigating Magnet Strength Uses of magnets 	<p>Making connections: How does food affect muscle fatigue</p> <ul style="list-style-type: none"> Investigating muscle fatigue-planning Investigating muscle fatigue-gathering data Investigating muscle fatigue-analysing, concluding and evaluating Investigating muscle fatigue-extending Investigating muscle fatigue-presenting

<p>Year 5/6 Cycle B (2025 – 2026)</p>	<p>Living things: Life cycles and reproduction</p> <ul style="list-style-type: none"> Life cycles and reproduction in plants Life cycle of a mammal Life cycle of a bird Life cycle of an amphibian Life cycle of an insect Asexual reproduction in plants 	<p>Animals, including humans: Circulation and health (cycle A)</p> <ul style="list-style-type: none"> Factors affecting health The heart and circulatory system Blood Heart rate Investigating exercise and heart rate Heart rate and fitness 	<p>Living things: Classifying big and small</p> <ul style="list-style-type: none"> Carl Linnaeus and classification Cold-blooded vertebrates Warm-blooded vertebrates Invertebrates Plants Micro-organisms 	<p>Living things: Evolution and inheritance</p> <ul style="list-style-type: none"> Variation Inheritance Adaptations Modelling natural selection Knowledge Evolution Evidence for evolution 	<p>Energy: Light and reflection (Cycle A)</p> <ul style="list-style-type: none"> The pathway of light See the light Measuring shadows Reflecting light Making a periscope Using mirrors 	<p>Making Connections: How does light affect the direction of plant growth?</p> <ul style="list-style-type: none"> Investigating plant growth-planning- Investigating plant growth-Gathering data
--	---	--	---	---	--	--

KLT LTM for Science – Two-year cycle (2025 – 2026 and 2026 – 2027)

						<ul style="list-style-type: none"> Investigating plant growth – Analysing, concluding and evaluating
<p>Year 5/6 Cycle A (2026 – 2027)</p>	<p>Materials: Mixtures and separation</p> <ul style="list-style-type: none"> Mixtures Sieving Filtering Solutions Dissolving Evaporating 	<p>Materials:properties and changes</p> <ul style="list-style-type: none"> Hardness Transparency Conductivity Reversible Irreversible changes: burning and rusting Irreversible changes: mixing 	<p>Forces and space: earth and space</p> <ul style="list-style-type: none"> Models of our solar system Our solar system The Moon Day and night Time Satellites and space junk 	<p>Forces and Space: unbalanced forces(Cycle B)</p> <ul style="list-style-type: none"> Gravity Air resistance Water resistance Friction Levers, pulleys and gears levers, pulleys and gears part 2 	<p>Animals, including humans: Human Timeline</p>	<p>Making connections: How reflective are space blankets?</p> <ul style="list-style-type: none"> Investigating space blankets – Planning Investigating space blankets – Gathering data Investigating space blankets – Analysing, concluding and evaluating Investigating space blankets – Extending Investigating space blankets – Presenting