

Science curriculum overview

Cycle A - 2024 - 2025

KSI					
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Living things and their habitats	Seasonal change - recording the weather	Everyday materials		Plants - naming plants, parts of a plant	Animals inc humans - basic needs, offspring, lifecycles
Significant scientists - https://www.dkfindout.com/uk/science/famous-scientists/					
Dawood Qureshi (marine biologist) Dawood Qureshi - marine biologist		Chester Greenwood (inventor of earmuffs)		Maria Sibylla Merian (scientific illustrator) Link to Natural History Museum	Florence Nightingale & Mary Seacole (nurses and founders of modern nursing)
Enquiries					
Pattern seeking Which habitat do worms prefer – where can we find the most worms?	Comparative testing In which season does it rain the most? (plan in as seasons change) Identifying and classifying How would you group these things based on which season you are most likely to see them in? Observing over time How does the oak tree (in the carpark) change over the year?	Research Which materials can be recycled? Observing over time What happens to materials over time if we bury them in the ground?		Comparative testing Which tree has the biggest leaves?	Comparative testing What is the best way to wash your hands? Identifying and classifying Which offspring belongs to which animal?

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LKS2					
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Animals inc humans Skeleton and muscles	Sound	Rocks		Living things and their habitats	Forces and magnets
Significant scientists - https://www.dkfindout.com/uk/science/famous-scientists/					
Marie Curie (invented first mobile x-ray machine)	Isaac Newton (measured the speed of sound)	Dr Anjana Khatwa (Earth scientist)		Kelsey Archer Barnhill (Deep sea ecologist)	Leonardo Da Vinci (compared friction on different surfaces)
Enquiries					
Comparative testing How does the skull circumference of a girl compare with that of a boy? Identifying and classifying How do the skeletons of different animals compare?	Comparative testing Are two ears better than one? Fair testing How does the volume of a drum change as you move further away from it?	Research Who was Mary Anning and what did she discover? Observing over time How does tumbling change a rock over time?		Fair testing Does the amount of light affect how many woodlice move around?	Pattern seeking Does the size and shape of a magnet affect how strong it is? Identifying and classifying Which materials are magnetic?

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UKS2					
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Forces	Earth and space	Living things and habitats - lifecycles	Animals inc humans - development into old age	Light	
Significant scientist - https://www.dkfindout.com/uk/science/famous-scientists/					
Archimedes (developed theories about pulleys and levers) Sir Isaac Newton	Nicolaus Copernicus (Astronomer who developed the theory that the Sun was at the centre of the Solar System around which the planets orbited) Katherine Johnson - first black woman to work for NASA. She developed calculations that helped the US launch its first astronaut into space in 1961 and safely land Apollo 11 on the moon in 1969.	Jane Goodall (conservationist who studies chimpanzees)	Professor Robert Winston (professor of fertility studies)	Alhazen (the father of optics) Ibn Sahl (observed the paths of rays of light as they reflected off different mirrors)	
Enquiries					
Comparative testing Which shape parachute takes the longest to fall? Fair test	Ideas over time How have our ideas about the solar system changed over time?	Research What are the differences between the life cycle of an insect and a mammal?	Observing over time How do different animal embryos change?	Fair testing How does the angle that a light ray hits a plane mirror affect the angle at which it reflects off the surface?	

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How does the surface area of a container affect the time it takes to sink?		Identifying and classifying Compare this collection of animals based on similarities and differences in their lifecycle.			
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