

## NATIONAL CURRICULUM OVERVIEW

# SCIENCE

	Science LKS2 NC Objectives	A World of Difference / Cry Freedom	Rocky the Findosaur
<b>States of Matter</b>	Compare and group materials together, according to whether they are solids, liquids or gases		
	Observe that some materials change state when they are heated or cooled, and measure the temperature at which this happens in degrees Celsius (°C), building on their teaching in mathematics		
	Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.		
<b>Light</b>	Recognise that they need light in order to see things and that dark is the absence of light		
	Notice that light is reflected from surfaces		
	Recognise that light from the sun can be dangerous and that there are ways to protect their eyes		
	Recognise that shadows are formed when the light from a light source is blocked by a solid object		
	Find patterns in the way that the size of shadows change		

	Science LKS2 NC Objectives	Come Fly With Me! Africa	Rocky the Findosaur
<b>Living Things and Their Habitats</b>	Recognise that living things can be grouped in a variety of ways		
	Explore and use classification keys to help group, identify and in their local and wider environment		
	Recognise that environments are constantly changing and that this can sometimes pose dangers to specific habitats (KS1)		
<b>Rocks</b>	Compare and group together different kinds of rocks on the basis of their simple physical properties		
	Describe in simple terms how fossils are formed when things that have lived are trapped within rock		
	Recognise that soils are made from rocks and organic matter.		



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	Science LKS2 NC Objectives	May the Force
<b>Forces and Magnets</b>	Compare how things move on different surfaces (KS1)	
	Notice that some forces need contact between two objects and some forces act at a distance	
	Observe how magnets attract or repel each other and attract some materials and not others	
	Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials.	
	Describe magnets as having two poles	
	Predict whether two magnets will attract or repel each other, depending on which poles are facing	

	Science LKS2 NC Objectives	Lightning Speed
<b>Electricity</b>	Identify common appliances that run on electricity (KS1)	
	Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers (KS1)	
	Identify whether or not a lamp will light in a simple series circuit based on whether or not the lamp is part of a complete loop with a battery	
	Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit	
	Recognise some common conductors and insulators, and associate metals with being good conductors	



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	Science LKS2 NC Objectives	Come Fly With Me! Africa
<b>Animals, Including Humans</b>	Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat	
	Identify that humans and some animals have skeletons and muscles for support, protection and movement	
	Describe the simple functions of the basic parts of the digestive system in humans	
	Identify the different types of teeth in humans and their simple functions	
	Construct and interpret a variety of food chains, identifying producers, predators and prey	

	Science LKS2 NC Objectives	Picture Our Planet
<b>Sound</b>	Find patterns between the pitch of a sound and features of the object that produced it	
	Find patterns between the volume of a sound and the strength of the vibrations that produced it	
	Recognise that sounds get fainter as the distance from the sound source increases. (KS1)	
	Identify how sounds are made, associating some of them with something vibrating	
	Identify that vibrations from sounds travel through a medium to the ear	



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	<b>Science LKS2 NC Objectives</b>	<b>Under the Canopy</b>
<b>Plants</b>	Identify and describe the functions of different parts of flowering plants: roots, stem / trunk, leaves and flowers	
	Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant	
	Investigate the way in which water is transported within plants	
	Explore the role of flowers in the life cycle of flowering plants, including pollination, seed formation and seed dispersal	

	<b>Science UKS2 NC Objectives</b>	<b>Rocky the Dinosaur</b>
<b>Evolution and Inheritance</b>	Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago	

