

## Lower Key Stage 2 Science

<ul> <li>Year</li> <li< th=""><th colspan="3">Biology</th><th>Chemistry</th><th colspan="2">ry Physics</th></li<></ul>	Biology			Chemistry	ry Physics		
Year       Now that animals, including umans, need the right types and mount of nutrition, and that they cannot make their own food; they get nutrition from what they eat.       describe the functions of different parts i roots, at mow hat plants roots, at mow hat plants and for life and growth (air, light, water, nutring food) and the physical properties.       order to see things and that dark is the absence of light.       * Know that is the forces can basence of light.         Year       * Know that a varied diet is beneficial to health (along with agod supply of air/ clean water).       * Know that parts ned for life and growt neersity is plants.       * Know that solve are formed when things that here lived are trapped within rock.       * Know that solve are formed when things that here lived are trapped within rock.       * Know that solve are formed when things that here lived are trapped within rock.       * Know that solve are formed when things that here lived are trapped within rock.       * Know that solve are formed when things that here lived are trapped within rock.       * Know that solve are formed when the light from a light source.       * Know how to make prediction to make prediction to make prediction to grow parts.       * Know that solve are trapped within rock.       * Know how to make prediction to make prediction to make prediction to make prediction to the basis of the basis parts of the source are formed when the light from a light source is blocked by a solid object.       * Know that magnets have two per trapped within rock.         * Know the functions of the basis parts of the basis parts of the size parts of the basis parts of the size parts of the group, identify and name a variety of living things an their isimple functions.       * Know that	Animals including Humans Plants			Rocks		Light	Forces & Magnets
Year 4Animals including HumansLiving things and their habitatsStates of matterSoundElectricityYear 4• Know the functions. the basic parts of the digestive system in humans.• Know that living things can be grouped in a variety of ways. • Know how to use classification keys to help group, identify and name a variety of living things in their local and wider environments. • Know thow to Construct and interpret a variety of• Know that iving things and their habitats• Know how to group materials together, according to whether they are solids, liquids or gases. • Know that materials change state when heated/cooled • Know that evaporation and condensation play a part in in the water cycle and• Know how sounds are made, associating some of them with something vibrating. • Know that vibrations from sounds travel through a medium to the ear. • Know how patterns between the volume of a sound and the strength of the vibrations that produced it. • Know that a switch opens and clos associate this with whether or not	<ul> <li>humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat.</li> <li>Know that a varied diet is beneficial to health (along with a good supply of air/ clean water).</li> <li>Know that exercise beneficial to health (focus on energy in versus energy out. Include information</li> </ul>	<ul> <li>describe the functions of parts of flowering plants: stem/trunk, leaves and flo</li> <li>Know what plants ned for growth (air, light, water, from soil, and room to growth (air, light, water, from soil, and room to growth vary from plant to p</li> <li>Know how water is transplants.</li> <li>Know the part that flower life cycle of flowering plant pollination, seed formatic</li> </ul>	different roots, owers. or life and nutrients row) and how lant. sported within ers play in the nts, including	<ul> <li>together differed kinds of rocks of basis of their appearance and physical proper</li> <li>Know how foss formed when the that have lived a trapped within a Know that soils made from rock</li> </ul>	int on the simple ties. ils are nings are rock. are	<ul> <li>order to see things and that dat is the absence of light.</li> <li>Know that light is reflected from surfaces.</li> <li>Know that light from the sun ca be dangerous and that there are ways to protect their eyes.</li> <li>Know that shadows are formed when the light from a light sour is blocked by a solid object.</li> <li>Know how to find patterns in the way that the size of shadows ca</li> </ul>	<ul> <li>objects but magnetic forces can act at a distance.</li> <li>Know how magnets attract or repel each other and attract some materials and not others.</li> <li>Know how to group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials.</li> <li>Know that magnets have two poles (like and unlike poles).</li> <li>Know how to make prediction whether two magnets will attract or repel each other, depending</li> </ul>
<ul> <li>Year</li> <li>4</li> <li>Know the functions of the basic parts of the digestive system in humans.</li> <li>Know the different types of teeth in humans and their simple functions.</li> <li>Know how to Construct a divergence of the wide environment.</li> <li>Know how to Construct a divergence of the wide environment.</li> <li>Know how to Construct a divergence of the wide environment.</li> <li>Know how to Construct a divergence of the wide environment.</li> <li>Know how to Construct a divergence of the wide environment.</li> <li>Know how to Construct a divergence of the wide environment.</li> <li>Know how to Construct a divergence of the wide environment.</li> <li>Know how to Construct a divergence of the wide environment.</li> <li>Know how to Construct a divergence of the wide environment.</li> <li>Know how to Construct a divergence of the wide environments can change and that the can change and t</li></ul>	Biology Cher		listry			Physics	
<ul> <li>Year</li> <li>4</li> <li>Know that living things can be grouped in a variety of ways.</li> <li>Know that living things can be grouped in a variety of ways.</li> <li>Know how to use classification keys to help group, identify and name a variety of living things in their local and wider environment.</li> <li>Know how to Construct a simple series circuit, based on variety of living things in their local and wider environments can and interpret a variety of</li> <li>Know that environments can change and that this can be grouped in a variety of living things in their local and wider environments.</li> <li>Know how to Construct a simple series circuit, based on variety of living things in their local and wider environments.</li> <li>Know that environments can change and that this can be group and that this can be gro</li></ul>	Animals including Humans Living	s including Humans Living things and their habitats		States of matter		Sound	Electricity
producers, predators sometimes pose dangers to living things sometimes pose dangers to	 <ul> <li>the basic parts of the digestive system in humans.</li> <li>Know the different types of teeth in humans and their simple functions.</li> <li>Know how to Construct and interpret a variety of food chains, identifying producers, predators</li> <li>Kn</li> </ul>	ouped in a variety of ways. Now how to use ssification keys to help oup, identify and name a riety of living things in their cal and wider environment. Now that environments can ange and that this can metimes pose dangers to	<ul> <li>materials together, according to whether they are solids, liquids or gases.</li> <li>Know that materials change state when heated/cooled</li> <li>Know that evaporation and condensation play a part in in the water cycle and associate the rate of evaporation with</li> </ul>		asso som Kno trav Kno of t Kno dist incr	ow now sounds are made, bociating some of them with hething vibrating. ow that vibrations from sounds rel through a medium to the ear. ow how patterns between the ume of a sound and the strength he vibrations that produced it. ow that sounds get fainter as the ance from the sound source reases.	<ul> <li>Know 10 common appliances that run on electricity.</li> <li>Know how to construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.</li> <li>Know how to 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.</li> <li>Know that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple s circuit.</li> <li>Know some common conductors and insulators, and associate metals with being good conductors.</li> </ul>

asking relevant questions and using different types of scientific enquiries to answer them

setting up simple practical enquiries, comparative and fair tests

making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers

gathering, recording, classifying and presenting data in a variety of ways to help in answering questions

recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables

reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions

using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions

identifying differences, similarities or changes related to simple scientific ideas and processes

using straightforward scientific evidence to answer questions or to support their findings.