Henleaze Junior School	Henleaze Junior School	Henleaze Junior School	Henleaze Junior School
Assessment Framework	Assessment Framework	Assessment Framework	Assessment Framework
Non-negotiable expectations	Non-negotiable expectations	Non-negotiable expectations	Non-negotiable expectations
Science By the end of Year 3 children should be able to	By the end of Year 4 children should be able to	Science By the end of Year 5 children should be able to	Science By the end of Year 6 children should be able to
	Living Things	Living Things	Living Things
	Recognise that living things can be grouped in a variety of ways	Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird	Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and
	Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment	Describe the life process of reproduction in some plants and animals	animals Give reasons for classifying plants and animals based on specific characteristics
	Recognise that environments can change and that this can sometimes pose dangers to living things		
Animals	Animals  Describe the simple functions of the basic parts of the	Animals	Animals
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	digestive system in humans	Describe the changes as humans develop to old age	Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood
Identify that humans and some other animals have skeletons and muscles for support, protection and movement	Identify the different types of teeth in humans and their simple functions		Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function
	Construct and interpret a variety of food chains, identifying producers, predators and prey		Describe the ways in which nutrients and water are transported within animals, including humans
Plants Identify and describe the functions of different parts			Evolution  Recognise that living things have changed over time
of flowering plants: roots, stem/trunk, leaves and flowers			and that fossils provide information about living things that inhabited the Earth millions of years ago
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			Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents
Investigate the way in which water is transported within plants			Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution
Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal			
Rocks Compare and group together different kinds of rocks	States of Matter  Compare and group materials together, according to	Materials Compare and group together everyday materials on	
on the basis of their appearance and simple physical properties	whether they are solids, liquids or gases	the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets	
Describe in simple terms how fossils are formed when things that have lived are trapped within rock	Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C)	Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution	
Recognise that soils are made from rocks and organic matter	Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature	Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating	
		Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic	
		Demonstrate that dissolving, mixing and changes of state are reversible changes	
		Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda	
	Sound		
	Identify how sounds are made, associating some of them with something vibrating		
	Recognise that vibrations from sounds travel through a medium to the ear 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		
Light  Recognise that they need light in order to see things			Light  Recognise that light appears to travel in straight lines
and that dark is the absence of light  Notice that light is reflected from surfaces			Use the idea that light travels in straight lines to explain that objects are seen because they give out or
Recognise that light from the sun can be dangerous and that there are ways to protect their eyes			reflect light into the eye  Explain that we see things because light travels from light sources to our eyes or from light sources to
Recognise that shadows are formed when the light from a light source is blocked by an opaque object			objects and then to our eyes  Use the idea that light travels in straight lines to explain why shadows have the same shape as the
Find patterns in the way that the size of shadows change			objects that cast them
Linange		Space	
		Describe the movement of the Earth, and other planets, relative to the Sun in the solar system	
		Describe the movement of the Moon relative to the	
		Earth	

		Describe the Sun, Earth and Moon as approximately	
		spherical bodies	
		Use the idea of the Earth's rotation to explain day and	
		night and the apparent movement of the sun across	
		the sky	
Forces	Electricity	Forces	Electricity
Compare how things move on different surfaces	Identify common appliances that run on electricity	Explain that unsupported objects fall towards the	Associate the brightness of a lamp or the volume of a
		Earth because of the force of gravity acting between	buzzer with the number and voltage of cells used in
		the Earth and the falling object	the circuit
Notice that some forces need contact between two	Construct a simple series electrical circuit, identifying	Identify the effects of air resistance, water resistance	Compare and give reasons for variations in how
objects, but magnetic forces can act at a distance	and naming its basic parts, including cells, wires, bulbs,	and friction, that act between moving surfaces	components function, including the brightness of
	switches and buzzers		bulbs, the loudness of buzzers and the on/off position
			of switches
Observe how magnets attract or repel each other and	Identify whether or not a lamp will light in a simple	Recognise that some mechanisms, including levers,	Use recognised symbols when representing a simple
attract some materials and not others	series circuit, based on whether or not the lamp is part	pulleys and gears, allow a smaller force to have a	circuit in a diagram
	of a complete loop with a battery	greater effect	
Compare and group together a variety of everyday	Recognise that a switch opens and closes a circuit and		
materials on the basis of whether they are attracted to	associate this with whether or not a lamp lights in a		
a magnet, and identify some magnetic materials	simple series circuit		
Describe magnets as having two poles	Recognise some common conductors and insulators,		
	and associate metals with being good conductors		
Predict whether two magnets will attract or repel each			
other, depending on which poles are facing			
Working Scientifically	Working Scientifically	Working Scientifically	Working Scientifically
Sometimes ask relevant questions and use different	Ask relevant questions and use different types of	Begin to plan different types of scientific enquiries to	Plan different types of scientific enquiries to answer
types of scientific enquiries to answer them	scientific enquiries to answer them	answer questions, including recognising and	questions, including recognising and controlling
types of scientific enquiries to answer them	scientific enquiries to answer them		
types or scientific enquiries to answer them	scientific enquines to answer them	controlling variables where necessary	variables where necessary
		controlling variables where necessary	variables where necessary
Set up simple practical enquiries and beginn to use fair		controlling variables where necessary  Take measurements, using a range of scientific	variables where necessary  Take measurements, using a range of scientific
	Sett up simple practical enquiries, comparative and	controlling variables where necessary  Take measurements, using a range of scientific equipment, with increasing accuracy and precision	variables where necessary  Take measurements, using a range of scientific equipment, with increasing accuracy and precision,
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