¹Westwood and Grove Primary Schools

Science knowledge, skills and vocabulary

Revisit vocabulary from previous Key Stage when beginning a new topic, ensure this vocabulary is also embedded throughout teaching.

	<u>Curriculum Programme</u>				
	L	earning Objective	Knowledge (National Curriculum)	Skills	Technical Vocabulary and key concepts
End of KS1	Biology	To understand plants		To observe and record, with some accuracy, the growth of a variety of plants as they change over time from a seed or bulb. To observe similar plants at different stages of growth. To investigate that plants need light and water to stay healthy. To observe closely,	1
			To understand how plants need water, light and a suitable temperature to grow and stay healthy	compare and contrast familiar plants. To describe how plants can be identified and grouped. To research and draw diagrams showing the parts of different plants including trees. To record how plants have changed over time.	

¹ Updated December 2019

To understand animals and human	To know the names of a variety of common animals including fish, amphibians, reptiles, birds and mammals including pets. To know the names of a variety of common animals that are carnivores, herbivores and omnivores To know the names of the basic parts of the human body and say which part of the body is associated with each sense To understand that animals including humans, have offspring which grow into adults To know the basic needs of animals, including humans, for survival (water, food and air) To understand humans of exercise, eating the right amounts of different types of food, and hygiene	To identify and classify a variety of animals that are birds, fish, amphibians, reptiles, mammals and invertebrates. To identify and compare the structure of common animals. To identify, name, draw and label parts of the body. To observe, compare and contrast animals. To identify and group animals according to what they eat. To investigate using their senses to compare different textures, sounds and smells. To observe and compare changes in humans and animals over time. To investigate and describe the basic needs of animals.	Key concepts: fish, amphibians, reptiles, birds and mammals tail, wing, claw, fin, scales, feathers, paw, beak, fur, hooves, warm blooded, cold blooded, eggs, gills, land, water head, body, neck, arms, elbows, legs, knees, face, ears, eyes, hair, mouth, teeth baby, toddler, child, teenager, adult
To investigate living things and their habitats	To know the differences between things that are living, dead, and things that have never been alive To understand that most living things live in habitats to which they are suited. To understand how different habitats, provide for the basic needs of different kinds of animals and plants. To understand how different habitats, provide for the basic needs of different kinds of animals and how they depend on each other To know the names of a variety of plants in their habitats, including microhabitats	To observe how different animals, including humans, grow To research what things animals need for survival and what humans need to stay healthy To identify and classify things according to whether they are living, dead or were never alive. To investigate a question and record their findings using charts. To research, describe and explain their decisions linked to their knowledge. To research and find out about the conditions in different habitats and microhabitats.	Key concepts: food chain habitat, microhabitat seashore, woodland, ocean, rainforest egg, chick, chicken; egg, caterpillar, pupa, living, dead, never been alive, suited, suitable, basic needs, food,, shelter, move, feed, producer, consumer, territory consumer, apex predator Names of areas in local habitats: Pond, woodland, logs, bushes etc

	Chemistry	To investigate materials	To know the names of a variety of animals in their habitats, including microhabitats To know how animals, obtain their food from plants and other animals. To understand a simple food chain, and identify and name different sources of food. To know the differences between an object and the material from which it is made To know the names of a variety of everyday materials, including wood, plastic, glass, metal, water, and rock To know the simple physical properties of a variety of everyday materials To know the names of and be able to group variety of everyday materials on the basis of their simple physical properties To know the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses To understand how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching	To compare the uses of everyday materials To observe closely, identify and classify the uses of different materials. To investigate and record their observations in a variety of ways. To perform simple investigations to explore questions.	Key concepts: suitability, properties object, material, brick, paper, fabrics, elastic, foil, wood, plastic, glass, metal, elastic, foil, card, cardboard, rubber, wool, clay, rock hard/soft; stretchy/stiff; shiny/dull; rough/smooth; bendy/floppy; waterproof/absorbent; breaks, tears, rough, smooth, shiny, dull, suitable/unsuitable, use/useful, rigid/flexible, strong/weak, transparent/opaque, shape, push/pushing, pull/pulling, twist/twisting, squash/squashing, bend/bending, stretch/stretching.
	Physics	To understand weather and seasonal changes	To understand changes across the 4 seasons To know that weather is associated with the seasons and how day length varies	To make tables, charts and displays about the weather and what happens in the world around them.	Key concepts: seasons- summer, winter, spring, autumn Sunny, rainy, windy, snowy, winter, summer, spring, autumn, sun, sunrise, sun set, day length, weather, climate
End of LKS2	Biology	To understand plants	To know the functions of different parts of flowering plants. To know that plants need air, water, nutrients from soil, light and room to grow and that this varies from plant to plant. To understand the requirements of plants for life and growth and how	To investigate the effect of different factors on plant growth e.g. fertiliser, sunlight. To spot patterns in the structure of fruits that relate to how the seeds are dispersed. To observe how water is transported in plants. (e.g. by putting cut,	Key concepts: Photosynthesis, pollination pollen, insect/wind seed formation, seed dispersal – wind dispersal, animal dispersal, water dispersal, roots, nutrition Revisit vocabulary taught in Key Stage 1.

	these vary from plant to plant.	white carnations into coloured water)	
	To know how water is transported in plants.	To observe how water travels up the stem to the flowers.	
	To understand the role of flowers in the life cycle of flowering plants including pollination, seed formation and seed dispersal.	To investigate questions around the role of the roots and stem in nutrition and support of a plants lifecycle, (e.g. leaves for nutrition and flowers for reproduction)	
To understand animals and human	To know that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food and they get nutrition from what they eat. To know humans and some other animals have skeletons and muscles for support, protection and movement. To understand the simple functions of the basic parts of the digestive system in humans To know the different types of teeth in humans and their simple functions To understand variety of food chains including understanding the role of producers, predators and prey To know parts of the body have special functions	To identify and classify animals with and without skeletons. To observe and compare animal's movement; exploring ideas about what would happen if humans did not have skeletons. To identify and compare the diets of different animals (including their pets) and decide ways of grouping them according to what they eat. To research different food groups and how they keep us healthy by designing meals based on what they find out. To research the main body parts associated with the digestive system.	Key concepts: herbivore, carnivore, omnivore, digestive system Digestion, mouth, teeth, tongue, saliva, oesophagus, stomach, small intestine, nutrients, large intestine, rectum, anus, teeth, incisor, canine, molar, muscles, plants, prey, predator, Revisit vocabulary taught in Key Stage 1.
To investigate living things	To know living things can be grouped in a variety of ways To understand classification keys and use these to help group, identify and name a variety of living things in their local and wider environment To understand environments can change and that this can sometimes pose dangers to living things.	To identify and classify local plants and animals using simple guides or keys To observe animals in their habitats and use what they have found out to answer and ask questions. To research the human impact (both positive and negative) on environments. (e.g. the positive effects of nature reserves, ecologically planned parks, or garden ponds, and the negative effects of population and development, litter or deforestation) To identify and research plants and animals in their habitat. To observe how the habitat changes throughout the year.	Key concept: Classification, classification keys, environment, habitat, human impact, positive, negative, migrate, hibernate, vertebrate, invertebrate, fish, amphibians, reptiles, birds, mammals, snail, slug, worm, spider, insect, skeleton, spine Revisit vocabulary taught in Key Stage 1.

To investigate materials (rocks and solis) To investigate materials (rocks and solis) To investigate materials (rocks and solis) To understand in simple terms when they are invested and include on the basis of their appearance and simple physical properties To understand in simple terms who fasts care fromed when those for an elegated within rock. In investigate materials (rocks and solis) To understand in simple terms have fost and the basis of their appearance and simple physical properties. To understand in simple terms have fost and the basis of their appearance when things that have fost and temporal within rock. In investigate when they are the solid environment. To investigate materials (rocks and organic matter.) To invest				
rocks and solis) roppearance and simple physical properties rounderstand in simple terms how tossis are formed whan things that have lived are trapped within rack. To understand in simple terms how tossis are formed whan things that have lived are trapped within rack. To know that solis are made from rocks and arganic matter. To know that solis are made from rocks and arganic matter. To investigate different solis in corder to identify and classify a differences between them To investigate what happans when rocks are formed. To investigate what happans when rocks are different solis in order to identify similarities and differences between them To investigate materials (states of matter) (states of matter) To investigate materials (states and bargoupes together according to whether they are solids, liquids or gass To investigate materials (states and bargoupes together according to whether they are solids, liquids or gass To know the trape and cooled. To know the role of experience and and social the role of experience and associate the role of experience and			range of living things that include animals and flowering plants and non-flowering plants. (e.g. vertebrate animals into groups such as fish, amphibians, reptiles, birds, and mammals; and invertebrates into snails and slugs, worms, spiders, and insects)	
To investigate materials (states of matter) To know materials can be grouped together according to whether they are solids, liquids or gases To understand that some materials change state when they are heated or cooled. To know the temperature at which this happens in degrees Celsius (°C) To know the role of evaporation and condensation in the water cycle and associate the rate of evaporation with temperature. To know the role of evaporation mith water cycle and associate the rate of evaporation with temperature. To know the role of evaporation with temperature. To investigate the effect of temperature on substances such as chocolate crispy cakes and ice-cream for a party). To research the temperature at which materials change state. (e.g. when iron melts or when oxygen condenses)	Chemistry	rocks can be grouped on the basis of their appearance and simple physical properties To understand in simple terms how fossils are formed when things that have lived are trapped within rock To know that soils are made from rocks and	rocks, including those used in buildings and gravestones and in the local environment. To research how and why rocks might have changed over time. To use a hand lens or microscope to help them to identify and classify rocks according to whether they have grains or crystals, and whether they have fossils in them. To research and discuss the different kinds of living things whose fossils are found in sedimentary rock and explore how fossils are formed. To investigate different soils in order to identify similarities and differences between them To investigate what happens when rocks are rubbed together and what changes occur when they are in water. To use research to raise and answer questions	formation Rock, stone, pebble, boulder, grain, crystals, layers, hard, soft, texture, absorb water, soil, fossil, marble, chalk, granite, sandstone, slate, soil, peat, sandy/chalk/clay soil, sedimentary,
I INTO Q IIQUIIQI		grouped together according to whether they are solids, liquids or gases To understand that some materials change state when they are heated or cooled. To know the temperature at which this happens in degrees Celsius (°C) To know the role of evaporation and condensation in the water cycle and associate the rate of evaporation with	To identify and classify a variety of everyday materials to create simple descriptions. (e.g. solids hold their shape; liquids form a pool not a pile; gases escape from an unsealed container) To investigate the effect of temperature on substances such as chocolate, butter, cream. (e.g. to make food such as chocolate crispy cakes and ice-cream for a party). To research the temperature at which materials change state. (e.g. when iron melts or when oxygen condenses	cycle - evaporation, condensation Solid, liquid, gas, state change, melting, freezing, melting point, boiling point, evaporation, temperature, condensation, vapour, clouds, run- off, evaporate, condense, water, precipitation

			To observe and record evaporation over a period of time. (E.g. a puddle in the playground or washing on a line) To investigate the effect of temperature on materials. () E.g. on washing drying or snowmen melting) To observe water as a solid, a liquid and a gas and investigate the changes to water when it is heated or cooled.	
Physics	To understand movement, forces and magnets	To know how things move on different surfaces To understand that some forces need contact between two objects, but magnetic forces can act at a distance To know how magnets attract or repel each other and attract some materials and not others To know a variety of everyday materials can be grouped and compared on the basis of whether they are attracted to a magnet, and identify some magnetic materials To know magnets as having two poles. To understand predict whether two magnets will attract or repel each other, depending on which poles are facing.	To identify and classify how different things move. To investigate how far things move on different surfaces, raising questions based on what they have found out. To research, gather and record data to find answers their own questions. To investigate the strengths of different magnets and find a fair way to compare them. To classify materials into those that are magnetic and those that are not. To spot patterns in the way that magnets behave in relation to each other and what might affect this. (e.g. the strength of the magnet or which pole faces another) To identify magnets are useful in everyday items and suggest creative uses for different magnets. To investigate the behaviour and everyday uses of different magnets. (e.g., bar, ring, button and horseshoe)	Key concepts: magnetism Force, push, pull, twist, contact force, non-contact force, magnetic force, magnetic force, magnet, strength, bar magnet, ring magnet, button magnet, horseshoe magnet, attract, repel, magnetic material, metal, iron, steel, poles, north pole, south pole, surface, positive, negative Revisit vocabulary taught in Key Stage 1.
	To understand light	To understand that they need light in order to see things and that dark is the absence of light To know that light is reflected from surfaces. To understand and describe that light from the sun can be dangerous and that there are ways to protect their eyes. To understand how shadows are formed and what might cause these to change.	To spot patterns in what happens to shadows when the light source moves or the distance between the light source and the object changes. To investigate and measure what happens to shadows when the light source moves or the distance between the light source and the object changes. To investigate that shadows are formed when the light from a	Key concepts: Behaviour of light Light, Light source, Dark, Absence of light, Transparent, Translucent, Opaque, Shiny, Matt, Surface, Shadow, Reflect, Mirror, Sunlight, Dangerous, absorption, Revisit vocabulary taught in Key Stage 1.

			To know how the size of shadows change.	light source is blocked by an opaque object	
			shadows change.	To investigate what happens when light reflects. (e.g. off a mirror or other reflective surfaces, including playing mirror game)	
				To use knowledge to answer questions about how light behaves.	
		To investigate sound	To understand how	To spot patterns in the	Key concept: Behaviour
		To investigate sound and hearing	Io understand how sounds are made, associating some of them with something vibrating To understand recognise that vibrations from sounds travel through a medium to the ear To know the pitch of a sound and features of the object that produced it can differ To know the volume of a sound and the strength of the vibrations that produced it can differ To understand that sounds get fainter as the distance from the sound source increases.	sounds that are made by different object. (e.g. saucepan lids of different sizes or elastic bands of different thicknesses) To investigate which provides the best insulation against sound. (e.g. make earmuffs from a variety of different materials to investigate.) To use research and what they have found out to make and play their own instruments. To identify the way sound is made through vibration in a range of different musical instruments from around the world.	sound, source, vibrate, vibration, travel, pitch (high, low), volume, faint, loud, insulation, matter, echo, wave, amplitude Revisit vocabulary taught in Key Stage 1.
				To investigate how the pitch and volume of sounds can be changed in a variety of ways.	
		To understand electrical circuits	To know appliances that run on electricity To understand a simple	To observe and spot patterns in simple circuits. (e.g. bulbs get brighter if more cells are added.)	Key concept: Electricity Electricity, electrical appliance/device, mains,
			series electrical circuit. To know the names of the basic parts of a simple circuit. To know whether or not a lamp will light in a simple series circuit.	To investigate conductors and insulators. (e.g. that metals tend to be conductors of electricity, and that some materials can and some cannot be used to connect across a gap in a circuit.)	plug, electrical circuit, complete circuit, component, cell, battery, voltage, current, resistance, power, positive, negative, connect/connections, loose connection, short circuit, crocodile clip, bulb, switch, buzzer,
			To understand the term 'complete loop' circuit. To understand the role of a switch in a simple circuit.	To test and draw pictorial representations of simple series circuits. (e.g. trying different components; bulbs, buzzers and motors, and including switches, and use their	motor, conductor, insulator, metal, non-metal, symbol cells, wires, bulbs, switches and buzzers
			To know some common conductors and insulators, and know metals are good conductors.	circuits to create simple devices)	Revisit vocabulary taught in Key Stage 1.
End of UKS2	Biology	To understand animals and human	To understand the changes as humans develop to old age. To know the stages of	To research the gestation periods of other animals and comparing them with humans. (e.g. by finding out and recording	Key concepts: Puberty, menstruation, reproduction, circulatory system
			growth and development in humans and record this on a timeline.	the length and mass of a baby as it grows) To research the work of scientists and scientific	Physical changes, Emotional changes, Moods, Periods, Tampons, Sanitary towels, Wet dreams, Semen, Erection,

research about the Sweat, Breasts, Spots, To know the changes experienced in puberty. relationship between Pubic hair, Facial hair, diet, exercise, drugs, Underarm hair, Womb, Sperm, Egg, Conception, To know the main parts of lifestyle and health. the human circulatory Fertilisation, Pregnancy, system. Sexual intercourse, Twins, Fostering, To know the functions of the heart, blood vessels Adoption, Relationship and blood. ,Friendship, Love, Consent, Intimacy, Sexual To know the impact of feelings, Privacy Human diet, exercise, drugs and rights, Protection, Female lifestyle on the way their Genital, Mutilation bodies function. To understand the ways in Heart, pulse, rate, pumps, which nutrients and water blood, blood vessels, are transported within transported, lungs, animals, including oxygen, carbon dioxide, humans. nutrients, water, muscles, cycle, exercise, drugs and To know how to keep their bodies healthy and lifestyle how their bodies might be damaged. Revisit vocabulary taught in Lower Key To know how some drugs Stage 2. and other substances can be harmful to the human body. To understand how the circulatory system enables the body to function. To investigate living To understand the To identify and classify **Key concepts:** things differences in the life animals into commonly Vertebrates, invertebrates cycles of a mammal. found invertebrates and amphibian, an insect and vertebrates. (insects, insects, spiders, snails, a bird spiders, snails, worms, fish, worms, flowering and amphibians, reptiles, birds non-flowering, To understand the life and mammals). process of reproduction in some plants and animals. To research and raise Revisit vocabulary auestions about their taught in Lower Key To understand how living local environment Stage 2. things are classified into throughout the year broad groups according to common observable To observe life-cycle characteristics, similarities changes in a variety of and differences. living things (e.g. plants in (microorganisms, plants the vegetable garden or flower border, and and animals) animals in the local To know and give environment) reasons for classifying plants and animals based To research the work of naturalists, animal on specific characteristics. behaviourists and pioneers (e.g. David Attenborough, Jane Goodall and Carl Linnaeus, a pioneer of classification.) To research different types of reproduction. (including sexual and asexual reproduction in plants, and sexual reproduction in animals) To observe and compare the life cycles of plants and animals in their local environment with other plants and animals around the world. (e.g.in the rainforest, in the

	To understand evolution and inheritance	To know that living things have changed over time. (i.e.that fossils provide information about living things that inhabited the Earth millions of years ago) To know living things produce offspring of the same kind. (note: normally offspring vary and are not identical to their parents) To understand how animals and plants are adapted to suit their environment in different ways. To know adaptation may lead to evolution.	oceans, in desert areas and in prehistoric times) To ask pertinent questions and suggesting reasons for similarities and differences about plants around the world. To test growing new plants from different parts of the parent plant. (e.g. seeds, stem and root cuttings, tubers, bulbs) To observe changes in an animal over a period of time (e.g.by hatching and rearing chicks). To research and compare how different animals reproduce and grow. To identify some animals and plants in the immediate environment using classification systems and keys. To research unfamiliar animals and plants from a broad range of other habitats and decide where they belong in the classification system To research how living things on earth have changed over time To research the idea of characteristics in evolution. (i.e. passed from parents to their offspring by considering different breeds of dogs, and what happens when. e.g.labradors are crossed with poodles) To research treation in offspring over time. (i.e can make animals more or less able to survive in particular environments, e.g. by exploring how giraffes' necks got longer, or the development of insulating fur on the arctic fox) To research the work of palae. Mary Anning and about how Chalres Dwallace development of insulating fur on the arctic fox)	Key concept: Natural selection (adaptation) Offspring, sexual reproduction, vary, characteristics, suited, adapted, environment, inherited, species, fossil, common ancestor Revisit vocabulary taught in Lower Key Stage 2.
Chemistry	To investigate materials	To know everyday	Darwin and Alfred Wallace developed their ideas on evolution) To investigate and	Key concept:
		materials can be grouped on the basis of their properties. To know how different materials respond to magnets. To know that some materials will dissolve in	compare the properties of a broad range of materials. (including relating to magnetism and electricity) To investigate reversible changes. (Including evaporating, filtering,	Chemical/physical changes Thermal/electrical insulator/conductor, change of state, mixture, dissolve, solution, soluble, insoluble, filter, sieve reversible/non-reversible
				insoluble, filter, sieve

liquid to form a solution, sieving, melting and change, burning, rusting, and describe how to dissolving.) new material, chemical recover a substance from To investigate changes a solution **Revisit vocabulary** that are difficult to taught in Lower Key To know that melting and reverse. (e.g. burning, Stage 2. dissolving are different rusting and other reactions; vinegar with processes. bicarbonate of soda) To understand solids. liquids and gases to To research how chemists decide how mixtures create new materials. might be separated. (e.g. Spencer Silver, who invented the alue for To know reasons, based sticky notes or Ruth on evidence from Benerito, who invented comparative and fair wrinkle-free cotton) tests, for the particular To observe that some uses of everyday materials. conductors will behave differently in electrical To understand that circuits. (e.g. produce a dissolving, mixing and brighter bulb in a circuit changes of state are than others and that reversible changes some materials will feel hotter than others when To understand and a heat source is placed explain that some against them) changes result in the formation of new To investigate answers to materials, and that this questions (e.g. 'Which kind of change is not materials would be the most effective for making usually reversible. a warm jacket, for To know changes wrapping ice cream to associated with burning stop it melting, or for and the action of acid on making blackout bicarbonate of soda. curtains?') To identify and compare materials in order to make a switch in a circuit. To observe and compare the changes that take place in materials (e.g. when burning different materials or baking bread or cakes.) To research and discuss how chemical changes have an impact on our lives (e.g. cooking) To research and discuss the creative use of new materials. (such as polymers, super-sticky and super-thin materials **Physics** To understand To understand that To investigate, using a fair Key concept:Air/water movement, forces and unsupported objects fall test, falling objects and resistance, gravity, magnets towards the Earth raise my own questions because of the force of using the results. (e.g. Force, Earth, friction, gravity. (that acts falling paper cones or mechanisms, simple between the Earth and cup-cake cases, making machines, levers, pulleys, the falling object) a range of parachutes) gears, velocity, thrust, To understand the effects To observe how different of air resistance, water objects fall. (parachutes resistance and friction, and sycamore seeds) Revisit vocabulary that act between moving tauaht in Lower Kev surfaces. To investigate resistance Stage 2. in water, (e.g.making To know that some and testing boats of different shapes) mechanisms allow a smaller force to have a To research, design and greater effect. (e.g. make products that use including levers, pulleys levers, pulleys, gears and gears)

		and/or springs and explore their effects.	
		To investigate the effects of friction on movement. (e.g. find out how it slows or stops moving objects, by observing the effects of a brake on a bicycle wheel)	
		To investigate the effects of levers, pulleys and simple machines on movement.	
		To research how scientists helped to develop the theory of gravity. (e.g. Galileo Galilei and Isaac Newton)	
To understand light	To understand that they need light in order to see things and that dark is the absence of light To know that light is reflected from surfaces. To understand and describe that light from the sun can be dangerous and that there are ways to protect their eyes. To understand how shadows are formed and what might cause these to change. To know how the size of shadows change.	To spot patterns in what happens to shadows when the light source moves or the distance between the light source and the object changes. To investigate and measure what happens to shadows when the light source moves or the distance between the light source and the object changes. To investigate that shadows are formed when the light from a light source is blocked by an opaque object To investigate what happens when light reflects. (e.g. off a mirror or other reflective surfaces, including playing mirror game) To use knowledge to answer questions about how light behaves.	Key concept: Behaviour of light Straight lines, Light rays, refraction, reflection, scattering, intensity Revisit vocabulary taught in Lower Key Stage 2.
To understand electrical circuits	To know the effect of the number and voltage of cells used in the circuit on the brightness of a lamp or the volume of a buzzer. To understand variations in how components function. (i.e.the brightness of bulbs, the loudness of buzzers and the on/off position of switches) To know and use symbols when representing a simple circuit in a diagram. To know and consider various forms of making electricity.	To identify the effect of changing one component at a time in a circuit. To investigate, design and make a useful circuit. (e.g. a set of traffic lights, a burglar alarm) To design investigations, to answer questions about the effects of different components in a circuit. (e.g., switches, bulbs, buzzers and motors)	Key concept: Renewable energy in circuit, circuit diagram, circuit symbol, motor, switch, electrons,, particules, filament, fuse, renewable, solar, current, wave/wind/solar power Revisit vocabulary taught in Lower Key Stage 2.

		To know the impact of		
		forms of electricity on the		
		environment.		
	To understand the Earths	To understand the	To research the way that	Key concept: Solar
	movement in space	movement of the Earth,	ideas about the solar	system
		and other planets,	system have developed.	
		relative to the Sun in the		Mercury, Venus, Earth,
		solar system.	To research and	Mars, Jupiter, Saturn,
			compare the time of day	Uranus and Neptune,
		To understand how the	at different places on the	(Pluto was reclassified as
		geocentric model of the	Earth through internet	a 'dwarf planet' in 2006)
		solar system gave way to	links and direct	
		the heliocentric model by	communication.	Spherical, rotates, star,
		considering the work of		orbits, planets, axis,
		scientists.	To research and create	centric, geocentric,
		l	simple models of the solar	heliocentric, time zone
		To understand that a	system.	
		moon is a celestial body	To be continued to	Suggested scientists:
		that orbits a planet (Earth	To investigate and	Ptolemy, Alhazen and
		has one moon; Jupiter	construct simple shadow	Copernicus
		has four large moons and	clocks and sundials. (these should be	Davidation and solve
		numerous smaller ones).	calibrated to show	Revisit vocabulary
		To understand the	midday and the start and	taught in Lower Key
		movement of the Moon	end of the school day)	<u>Stage 2.</u>
		relative to the Earth.	end of the school day)	
		Totalive to the Latti.		
		To know why some		
		people think that		
		structures such as		
		Stonehenge might have		
		been used as		
		astronomical clocks.		
		To understand the Sun,		
		Earth and Moon as		
		approximately spherical		
		bodies.		
		To understand the idea of		
		the Earth's rotation to		
		explain day and night		
		and the apparent		
		movement of the sun		
		across the sky.		
		To know that the Sun is a		
		star at the centre of our		
		solar system and that it		
		has eight planet.		