#### Y1 Plants

identify and name a variety of common wild and garden plants, including deciduous and evergreen trees identify and describe the basic structure of a variety of common flowering plants, including trees

Assessment guidance		nce	Possible Evidence	Possible Evidence			
SECURE	Shows under of a concept scientific voc correctly	using	Can name trees and other plants that Can describe some of the key feature shape of the leaves, the colour of the Can point out trees which lost their leaves whole year Can point to and name the parts of a always the same e.g. leaves and stem	es of these troes flower/blose eaves and the plant, recog	ees and plar som ose that kep	ot them the	
	Applying knowledge in familiar related contexts, including a range of enquiries		Can sort and group parts of plants us Can use simple charts etc. to identify Can collect information on features t Can use photographs to talk about he	plants hat change d	luring the ye	ear	
Priorities for End of Y1		Priorities for	Y2 link to living things and habitats	WTS	met	GDS	

### Y1 Animals – see next sheet for human statement

identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals identify and name a variety of common animals that are carnivores, herbivores and omnivores describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)

Asse	essment guida	nce	Possible Evidence			
SECURE	Shows understanding of a concept using scientific vocabulary correctly		Can name a range of animals which in vertebrate groups Can describe the key features of these Can label key features on a picture/diction write descriptively about an anim Can write a What am I? riddle about a Can describe what a range of animals	e named anir agram nal an animal		th of the
	Applying knowledge in familiar related contexts, including a range of enquiries		Can sort and group animals using sim Can use simple charts etc. to identify Can create a drawing of an imaginary Can use secondary resources to find of to experts e.g. pet owners, zoo keeps	unknown ani animal label out what anir	imals ling its key f	
Priorities fo		Priorities fo	r Y2 link to living things and habitats	WTS	met	GDS

### Y1 Humans – see previous sheet for animal statements

1. identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense

Assessment guidance		Possible Evidence				
	Shows understanding of a concept using scientific vocabulary correctly	Can play and lead 'Simon says'.  During PE lessons, can follow instructions involving parts of the body  Can label parts of the body on pictures and diagrams  Can explore objects using different senses				
SECURE	Applying knowledge in familiar related contexts, including a range of enquiries	Can use first-hand close observations to make Can name body parts correctly when talking a comparisons 'My arm is x straws long.' 'My arm is x straws long and my leg is y straw my arm.' 'We both have hands, but his are bigger than 'These people have brown eyes and these have Can talk about their findings from investigation vocabulary 'My fingers are much better at feeling than my 'We found that the crisps all taste the same.'	bout meas s long. My l mine.' re blue.' ons using ap	urements	ger than	
	End of Y1	Priorities for Y2 link to living things and habitats	WTS	met	GDS	

### Y1 Everyday materials

- 1. distinguish between an object and the material from which it is made
- 2. identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock
- 3. describe the simple physical properties of a variety of everyday materials compare and group together a variety of everyday materials on the basis of their simple physical properties

Assessment guidance		Possible Evidence					
	Shows understanding of a concept using scientific vocabulary correctly	Can label a picture or diagram of an object made from different materials  Can describe the properties of different materials					
SECURE	Applying knowledge in familiar related contexts, including a range of enquiries	Can sort objects and materials using a range of properties  Can choose an appropriate method for testing an object for a particular property  Can use their test evidence to answer the questions about properties e.g.  Which cloth is the most absorbent?					
End of Y1		Priorities for Y2 link to living things and habitats	WTS	met	GDS		

# Y1 Seasonal Change

- 1. observe changes across the four seasons
- 2. observe and describe weather associated with the seasons and how day length varies

Assessment guidance		Possible Evidence						
SECURE	Shows understanding of a concept using scientific vocabulary correctly	Can describe weather in different seasons over Can describe days as being longer (in time) in twinter.	can name the four seasons and identify when in the year they occur.  Can describe weather in different seasons over a year.  Can describe days as being longer (in time) in the summer and shorter in the vinter.  Can describe other features that change through the year					
	Applying knowledge in familiar related contexts, including a range of enquiries	Use their evidence gathered to describe the general types of weather and changes in day length over the seasons.  Use their evidence to describe some other features of their surroundings, themselves, animals, plants that change over the seasons  Demonstrate their knowledge in different ways e.g. making a weather forecast video, writing seasonal poetry, creating seasonal artwork						
End of Y1		Priorities for Y2 link to living things and habitats	WTS	met	GDS			

# **Summary End of Y1**

	Priorities for 2	WTS	met	GDS
End of Y1				

### Y2 Living things and their habitat

- 1. explore and compare the differences between things that are living, dead, and things that have never been alive
- 2. identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other
- 3. identify and name a variety of plants and animals in their habitats, including micro-habitats
- 4. describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food

Assessment guidance		Possible Evidence						
SECURE	Shows understanding of a concept using scientific vocabulary correctly	Can name a range of animals and plants that live i that they have studied Can talk about how the features of these animals suitable to the habitat Can talk about what the animals eat in a habitat a shelter for them	n talk about how the features of these animals and plants make them table to the habitat in talk about what the animals eat in a habitat and how the plants provide elter for them in construct a food chain that starts with a plant and has the arrows pointing the correct direction					
SE	Applying knowledge in familiar related contexts, including a range of enquiries	Can sort into living, dead and never lived Can give key features that mean the animal or plant is suited to its micronabitat Using a food chain can explain what animals eat Can explain in simple terms why an animal or plant is suited to a habitat e.g. The caterpillar cannot live under the soil like a worm as it needs fresh leaves to eat; the seaweed we found on the beach cannot live in our pond because it is not salty						
End of Y2		Priorities for Y3/4	WTS	met	GDS			

#### Y2 Plants

- 1. observe and describe how seeds and bulbs grow into mature plants
- 2. find out and describe how plants need water, light and a suitable temperature to grow and stay healthy

Assessment guidance		Possible Evidence	Possible Evidence					
JRE	Shows understand of a concept using scientific vocabula correctly	Can describe how plants that they have grown from seeds and bulbs have developed over time Can identify plants that grew well in different conditions						
SECURE	Applying knowledge in familiar related contexts, including range of enquiries	Can nurture seeds and bulbs into mature plants ide		fferent				
		Priorities for Y3/ 4	WTS	met	GDS			
End of Y2								

#### Y2 Animals including humans

- 1. notice that animals, including humans, have offspring which grow into adults
- 2. find out about and describe the basic needs of animals, including humans, for survival (water, food and air)
- 3. describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene

Assessment guidance Possible Evidence						
SECURE	Shows understanding of a concept using scientific vocabulary correctly		Can describe how animals including humans have offspring which grow into adults, using the appropriate names for the stages Can state the basic needs of animals, including humans, for survival. Can state the importance for humans of exercise, eating the right amounts of different types of food and hygiene. Can name foods in each section of the Eatwell guide			
	Applying knowledge in familiar related contexts, including a range of enquiries		Can describe, including using diagrams, the life of humans, and their growth to adults e.g. by creat younger child Can measure/observe how animals, including hus Show what they know about looking after a bab parenting/pet owners' guide Explain how development and health might be a and needs being met/not met.	ing a life cycle umans, grow. y/animal by ci	e book for	or a
End of Y2		Priorit	ies for Y3/ 4	WTS	met	GDS

### Y2 Uses of everyday materials

- 1. identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses
- 2. find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching

Asse	essment guidance	Possible Evidence					
SECURE	Shows understanding of a concept using scientific vocabulary correctly	an name an object, say what material it is made from, identify its properties and nake a link between the properties and a particular use an label a picture or diagram of an object made from different materials or a given object can identify what properties a suitable material needs to have whilst changing the shape of an object can describe the action used an use the words flexible and/or stretchy to describe materials that can be hanged in shape and stiff and/or rigid for those that cannot an recognise that a material may come in different forms which have different roperties					
	Applying knowledge in familiar related contexts, including a range of enquiries	Can sort materials using a range of properties  Can explain using the key properties why a material a purpose  Can begin to choose an appropriate method for test property  Can use their test evidence to select appropriate my Which material is the best for a rain hat?	ting a materi	al for a	particular		
End of Y2		Priorities for Y3/4	WTS	met	GDS		

# **Summary End of Y2**

	Priorities for Y3/4	WTS	met	GDS
End of Y2				

### Y3/4 Plants

- 1. identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers
- 2. 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
- 3. investigate the way in which water is transported within plants
- 4. explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal

Δ	Assessment guidance		nce	Possible Evidence				
JRE	IRE	concept usir	crstanding of a ept using formation, seed dispersal, and germination tific vocabulary  Can give different methods of pollination and seed dispersal.					
	SECURE	Applying knowledge on familiar related contexts, including a range of enquiries		Can explain observations made during investigations  Can look at the features of seeds to decide on their method of dispersal  Can draw and label a diagram of their created flowering plant to show its parts, their role and the method of pollination and seed dispersal				
Er	End of Y3/4 Prioriti		Priorities	for Y5/6	WTS	met	GDS	

#### Y3/4 Animals including humans

- 1. 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
- 2. identify that humans and some other animals have skeletons and muscles for support, protection and movement
- 3. describe the simple functions of the basic parts of the digestive system in humans
- 4. identify the different types of teeth in humans and their simple functions
- 5. construct and interpret a variety of food chains, identifying producers, predators and prey

Assess	sment guidance	Possible Evidence			
	Shows understanding of a concept using scientific vocabulary correctly	Can name the nutrients found in food Can state that to be healthy we need to eat the right correct amount of these nutrients Can name some bones that make up their skeleton groupport, help them move or provide protection Can describe how muscles and joints help them to make the main parts of the digestive system Can draw the main parts of the digestive system Can describe what happens in each part of the digestive Can point to the three different types of teeth in the their shape and what they are used for Can name producers, predators and prey within a haccan construct food chains	giving exa nove n to a hum stive syst	amples th an outlin em	nat e
				their gat ng their e al move, through	nquiry and the body
End of Y3/4		riorities for Y5/6	WTS	met	GDS

#### Y3 /4Rocks

- 1. compare and group together different kinds of rocks on the basis of their appearance and simple physical properties
- 2. describe in simple terms how fossils are formed when things that have lived are trapped within rock
- 3. recognise that soils are made from rocks and organic matter

Asse	ssment guidance	Possi	ole Evidence			
	Shows understan concept using scie vocabulary correct	entific	Can name some types of rock and give physical to Can explain how a fossil is formed Can explain that soils are made from rocks and a			dead matter
SECURE	Applying knowledge in familiar related contexts, including a range of enquiries	Can do Can lin more Can pi play, c Can id	assify rocks in a range of different ways using approvise tests to explore the properties of rocks and use rocks changing over time with their properties easily resent in different ways their understanding of how comic strip, chronological report, stop-go animation entify plant/animal matter and rocks in samples of evise a test to explore the water retention of soils	use data t e.g. soft r w fossils on etc.	o rank the ocks get w	e rocks vorn away
End of Y3/4 Pri		Priorities fo	r Y5/6	WTS	met	GDS

#### Y3 /4 Light

- 1. recognise that they need light in order to see things and that dark is the absence of light
- 2. notice that light is reflected from surfaces
- 3. recognise that light from the sun can be dangerous and that there are ways to protect their eyes
- 4. recognise that shadows are formed when the light from a light source is blocked by an opaque object
- 5. find patterns in the way that the size of shadows change

Asse	essment guidan	ce	Possible Evidence			
SECURE	Shows understanding of a concept using scientific vocabulary correctly		Can describe how we see objects in light and colight Can state that it is dangerous to view the sun of view the sun, for example in eclipses Can define transparent, translucent and opaque Can describe how shadows are formed by objective.	lirectly ar	nd state p	
SEC	Applying kno in familiar rel contexts, incl a range of en	lated luding	Can describe patterns in visibility of different of and predict which will be more or less visible a Can clearly explain, giving examples, that object Can describe and demonstrate how shadows a Can describe, demonstrate and make prediction vary	s condition ots are no re forme	ons chang ot visible i d by bloc	ge n complete darkness king light
End	End of Y3/4 Prioritie		es for Y5/6	WTS	met	GDS

#### Y3 Forces and magnets

- 1. compare how things move on different surfaces
- 2. notice that some forces need contact between two objects, but magnetic forces can act at a distance
- 3. observe how magnets attract or repel each other and attract some materials and not others
- 4. 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
- 5. describe magnets as having two poles
- 6. predict whether two magnets will attract or repel each other, depending on which poles are facing 2

Ass	Assessment guidance		Possible Evidence			
SECURE	Shows understanding of a concept using scientific vocabulary correctly		Can give examples of forces in everyday life Can give examples of objects moving differentl Can name a range of types of magnets and sho Can draw diagrams using arrows to show the a poles of magnets	w how tl	he poles a	ittract and repel
SECI	Applying knowledge in familiar relations contexts, including a ratio of enquiries	ed	Can use their results to describe how objects no Can use their results to make predictions for further on this surface than that, but not as long as it so Can use classification evidence to identify that Through their exploration they can show how and name unmarked poles  Can use test data to rank magnets	irther tes pun on t some me	sts e.g. it v hat surface etals but r	will spin for longer ce not all are magnetic
End	End of Y3/4 Prioritie		es for Y5/6	WTS	met	GDS
	·					

### Y3/ 4 Living things and their habitats

recognise that living things can be grouped in a variety of ways

explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment

recognise that environments can change and that this can sometimes pose dangers to living things

	-					
Assessment guidance			Possible Evidence			
JRE	Shows understanding of a concept using scientific vocabulary correctly		Can name living things living in a range of helped them to identify them Can give examples of how an environme to human impact		,	
SECURE	Applying knowledge in familiar related contexts, including a range of enquiries		Can keep a careful record of living things throughout the year (diagrams, tally cha Can use classification keys to identify un Can present their learning about change e.g. campaign video, persuasive letter	rts etc.) known plant	s and animal	S
End of Y3/4 Priorities for Y		Priorities for Y	5/6	WTS	met	GDS

#### Y3/ 4 States of matter

- 1. compare and group materials together, according to whether they are solids, liquids or gases
- 2. 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)
- 3. identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature

Assess	sment guidance	Possible Evidence			
	Shows understanding of a concept using scientific vocabulary correctly	Can create a concept map, including arrows Can name properties of solids, liquids and ga Can give everyday examples of melting and f Can give everyday examples of evaporation a Can describe the water cycle	ses reezing		у
SECURE	Applying knowledge in familiar related contexts, including a range of enquiries	Can give reasons to justify why something is Can give examples of things that melt/freeze From their observations, can give the melting Using their data, can explain what affects how Can measure temperatures using a thermom Can explain why there is condensation on the outside of the icy water cup From their data, can explain how to speed up Can present their learning about the water con explanation text, story of a water droplet	and how the good points of some quickly as some tere and or slow do	eir melting pome materia solid melts hot water cu	p but on the
End o	f Y3/4 Prioritie	s for Y5/6	WTS	met	GDS

### Y3/ 4 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

Assessment guidance			Possible evidence			
SECURE	understanding Call of a concept Call using the scientific Call vocabulary vib correctly Call		name sound sources and state that sounds are produced by the vibration of the object. state that sounds travel through different mediums such as air, water, metal give examples to demonstrate how the pitch of a sound are linked to the features of object that produced it give examples of how to change the volume of a sound e.g. increase the size of ations by hitting or blowing harder give examples to demonstrate that sounds get fainter as the distance from the sound ree increases			
SE	Applying knowledge in familiar related contexts, including a range of enquiries	ng	Can explain what happens when you strike a dru to show how sounds travel from an object to the Can demonstrate how to increase or decrease printstruments or other objects Can use data to identify patterns in pitch and vo Can explain how loudness can be reduced by mo by using a sound insulating medium	e ear itch and volu	ume using m	usical
End of Y3/4 Prio		Prior	rities for Y5/6	WTS	met	GDS

### Y3/ 4 Electricity

- 1. identify common appliances that run on electricity
- 2. construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers
- 3. 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
- 4. recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit
- 5. recognise some common conductors and insulators, and associate metals with being good conductors

Asse	ssment guidance	Possible Evidence
	Shows understanding of a concept using scientific vocabulary correctly	Can name the components in a circuit Can make electric circuits Can control a circuit using a switch Can name some metals that are conductors Can name materials that are insulators
SECURE	Applying knowledge in familiar related contexts, including a range of enquiries	Can communicate structures of circuits using drawings which show how the components are connected Use classification evidence to identify that metals are good conductors and nonmetals are insulators Can incorporate a switch into a circuit to turn it on and off Can connect a range of different switches identifying the parts that are insulators and conductors Can add a circuit with a switch to a DT project and can demonstrate how it works Can give reasons for choice of materials for making different parts of a switch Can describe how their switch works

# Summary Year 3 and 4

End of Y3/4	Priorities for Y5/6	WTS	met	GDS

### Y5/6 Living things and their habitats

- 1. describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird
- 2. describe the life process of reproduction in some plants and animals
- 3. describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals
- 4. give reasons for classifying plants and animals based on specific characteristics

Assessn	nent guida	nce	Possible evidence			
SECURE	Shows understanding of a concept using scientific vocabulary correctly		Can draw the life cycle of a range of animal differences between the life cycles Can explain the difference between sexual examples of how plants reproduce in both Can give examples of animals in the five veinvertebrate groups Can give the key characteristics of the five invertebrate groups Can compare the characteristics of animals Can give examples of flowering and non-flowering and no	I and asex ways ertebrate vertebrat	ual reproduct groups and so e groups and ent groups	ion and give
SE	in familia	including a	Can present their understanding of the life different ways e.g. drama, pictorially, chrocan identify patterns in life cycles Can compare two or more animal life cycle Can explain how a range of plants reproduct Can use classification materials to identify Can create classification keys for plants and Can give a number of characteristics that exparticular group	nological es studied ice asexua unknown d animals	reports, creat ally plants and ar	ing a game nimals
End of	f Y5/6	Priorities for to	ransition	WTS	met	GDS

#### Y5/6 Animals, including humans (this builds on the learning in Living things and their habitat)

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

recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function describe the ways in which nutrients and water are transported within animals, including humans

Assess	ment guidan	ce		Possible evidence			
H.	understanding Can of a concept Can using scientific show vocabulary Processors			explain the changes that takes place in boys explain how a baby changes physically as it go Iraw a diagram of the circulatory system and what the parts do uces a piece of writing that demonstrates the job description of the heart	rows and I label the	also what it is parts and an	able to do notate it to
SECURE	Applying knowledge in familiar related contexts, including a range of enquiries	role Can Can on t Pres	use s expl the bo	information e.g. in a health leaflet describing	riting con f diet, exe	clusions for in rcise, drugs ar	vestigations nd lifestyle
End o	End of Y5/6 Priori		for tr	ansition	WTS	met	GDS

#### Y5/6 Evolution and inheritance

- 1. recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago
- 2. recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents
- 3. identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution

Asse	ssment guidaı	nce Po	ossible Evidence			
SECURE	understanding Ca of a concept Ca using scientific pe vocabulary Gi		an explain the process of evolution an give examples of how plants and animals an an give examples of how an animal or plant ha eppered moth we examples of living things that lived millions have to support this an give examples of fossil evidence that can be colution	s evolved ov s of years ag	ver time e.g. o and the fo	penguin, ssil evidence
Applying knowledge in familiar related contexts, including a range of enquiries  Can identify characteristics that will make a plant or animal suited or not a particular habitat  Can link the patterns seen in the model to the real examples  Can explain why the dominant colour of the peppered moth changed or short period of time						
End of Y5/6 Priorit		Priorities	for transition	WTS	met	GDS

#### Y5/6 Properties and changes of materials

- 1. compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets
- 2. know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution
- 3. use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating
- 4. give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic
- 5. demonstrate that dissolving, mixing and changes of state are reversible changes
- 6. 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

Assessment guidance			Possible evidence			
SECURE	Shows understanding of a concept using scientific vocabulary correctly  Applying knowledge in familiar related contexts, including a range of enquiries		Can use understanding of properties to explain everyday uses of materials. For example, how bricks, wood, glass and metals are used in buildings Can explain what dissolving means, giving examples Can name equipment used for filtering and sieving Can use knowledge of liquids, gases and solids to suggest how materials can be recovered from solutions or mixtures by evaporation, filtering or sieving Can describe some simple reversible and non-reversible changes to materials, giving examples			
			Can create a chart or table grouping/comparing everyday materials by different properties  Can use test evidence gathered about different properties to suggest an appropriate material for a particular purpose  Can group solids based on their observations when mixing them with water  Can give reasons for choice of equipment and methods to separate a given solution or mixture such as salt or sand in water  Can explain the results from their investigations involving dissolving and non-reversible change			h water a given
End o	f Y5/6	Priorities for t	ransition	WTS	met	GDS

### Summary Year 5 and 6

Priorities for transition	WTS	met	GDS
	Priorities for transition	Priorities for transition WTS	Priorities for transition WTS met

### Y5 / 6 Earth and space

- 1. describe the movement of the Earth, and other planets, relative to the Sun in the solar system
- 2. describe the movement of the Moon relative to the Earth
- 3. describe the Sun, Earth and Moon as approximately spherical bodies
- 4. use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky

Assessment guidance		nce	Possible evidence				
	Shows understanding of a concept using scientific vocabulary correctly		Can create a voice over for a video clip or animation Can show using diagrams the movement of the Earth and Moon Can explain the movement of the Earth and Moon Can show using diagrams the rotation of the Earth and how this causes day and night Can explain what causes day and night				
SECURE	Applying knowledge in familiar related contexts, including a range of enquiries		Can use the model to explain how the Earth moon moves in relation to the Earth Can demonstrate and explain verbally how day Can explain evidence gathered about the position movement of the Earth. Can show this using a Can explain how a sundial works Can explain verbally using a model why we have Can describe the arguments and evidence use	y and night o tion of shado model ve time zone	occur ows in term o	of the	
End	End of Y5/6 Priori		es for transition	WTS	met	GDS	

### Y5/6 Forces

- 1. explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object
- 2. identify the effects of air resistance, water resistance and friction, that act between moving surfaces
- 3. recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect

Assessment guidance			Possible evidence			
SECURE	Shows understanding of a concept using scientific vocabulary correctly		Can demonstrate the effect of gravity acting on an unsupported object Can give examples of friction, water resistance and air resistance Can give examples of when it is beneficial to have high or low friction, water resistance and air resistance Can demonstrate how pulleys, levers and gears work			
	Applying knowledge in familiar related contexts, including a range of enquiries		Can explain the results of their investigations in terms of the force, showing a good understanding that as the object tries to move through the water or air or across the surface, the particles in the water, air or on the surface slow it down Can demonstrate clearly the effects of using levers, pulleys and gears			
End of Y5/6		Prioritie	s for transition	WTS	met	GDS

#### Y5/6 Light

- 1. recognise that light appears to travel in straight lines
- 2. use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye
- 3. explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes
- 4. use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them

Assessment guidance			Possible Evidence			
SECURE	Shows understanding of a concept using scientific vocabulary correctly		Can describe with diagrams or models as appropriate how light travels in straight lines either from sources or reflected from other objects into our eyes. Can describe with diagrams or models as appropriate how light travels in straight lines past translucent or opaque objects to form a shadow of the same shape.			
	Applying knowledge in familiar related contexts, including a range of enquiries		Can explain how evidence from enquines Can predict and explain with diagram path of light rays can be directed by reflection in car rear view mirrors of Can predict and explain with diagram shape of shadows can be varied.	ms or modo reflection r in a periso	els as appr to be seen cope.	opriate how the , for example
End of Y5/6 Pr		Priorities	for transition	WTS	met	GDS

#### Y5/ 6 Electricity

- 1. associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit
- 2. compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches
- 3. use recognised symbols when representing a simple circuit in a diagram

Assessment guidance			Possible Evidence			
	Shows understanding of a concept using scientific vocabulary correctly		Can make electric circuits and demonstrate how variation in the working of particular components, such as the brightness of bulbs can be changed by increasing or decreasing the number of cells or using cells of different voltages Can draw circuit diagrams of a range of simple series circuits using recognised symbols			
SECURE	knowledge in familiar related contexts, including a range of enquiries		Can incorporate a switch into a circuit to turn it on and off Can change cells and components in a circuit to achieve a specific effect Can communicate structures of circuits using circuit diagrams with recognised symbols Can devise ways to measure brightness of bulbs, speed of motors, volume of a puzzer during a fair test Can predict results and answer questions by drawing on evidence gathered		ors, volume of a	
End	End of Y5/6 Priorit		s for transition	WTS	met	GDS