Year 6 Key Knowledge							
Living things & their habitats (6 lessons)	Evolution (6 lessons)	Electricity (5 lessons)	Animals including humans (6 lessons)	Light (6 lessons)			
What is classification?	what is evolution?	what is electricity?	together to maintain a healthy body?	what is light?			
*sort animals into groups using different criteria;	*explain what adaptation means and explain	*know the symbols used to represent simple	*name the main parts of the human	*recognise that light appears to travel in			
e.g. nutrition (omnivore, carnivore or nerbivore; animai group (fish. amphibian etc.): vertebrate/	how some plants adapt to their environment	items in an electrical circuit	circulatory system and explain how the system works	straight lines			
invertebrate			System works				
*use a classification key to identify animals and create a	*explain how specific animals are adapted to	*know that the greater the voltage, the	*name the main parts of the heart and explain	*be able to explain why some materials made			
key using yes/no quesuons to identity animais	type of teeth etc)	brighter the build	how the heart pumps blood	good reliectors and some absorb the light			
			*calculate their heart know different activities				
			which increase heart rate				
* select criteria to use to sort plants into groups. based	*understand how adaptation of the Pennered Moth over time has led to the	*be able to state the outcome of changing	*explain how the blood plays a role in transporting	*explain how the eye works			
	species changing over time to suit its		nutrients and water around the body				
	environment						
*explain that microorganisms are living things & know	*living things produce offspring but these	*be able to collect relevant data and					
that yeast respires and is therefore a living	offspring will vary in characteristics from	interpret what it shows	describe now we can keep reality by exercising,	*explain why shadows have the same shape as the objects that cast them			
microorganism	their parents. List inheritable characteristics		eating a nealthy diet and taking care of our	*explain how shadows change during the day			
microorganisms			hygiene				
*explain who Carolus Linnaeus was and why he is an	*recognise that living things have changed	*name renewable and no renewable energy	* identify different things that people do that can	*we can see objects because they give			
Important scientist	over time and tossils provide us with information about things that inhabited the	sources & give examples of each	lead to them being unhealthy	out or reflect light into the eye.			
	Earth millions of years ago						
		Key Vocabulary & Definitions		Γ			
classify – to arrange a group of people or things in classes or categories according to	adaptation: When a plant or animal has changed in	appliance – a device or piece of equipment	heart – a muscle that p umps blood around	dark – the absence of light			
sharedqualities or characteristics	some way, usually over a long period of time, to be	that has been made to perform a specific	the body	reflect – a surface (or body) that throws back			
vertebrate – an animal that has a backbone	better suited to the environment in which they live.	task battery – a small item used to power small	lungs - spongy air filled organs that provide	light without absorbing it			
invertebrate – an animal without a backbone	environment: the conditions that surround an	appliances	oxygen to the blood	snadow – an area where direct light from a light source cannot reach due to obstruction by an object			
exoskeleton – a rigid external covering for	evolution: the process by which different	circuit – a route through which electricity	blood – a liquid that carries oxygen, water	opaque – opaque materials do not let any light			
the body in some invertebrate animals	kinds of living organisms are believed to have	components – the parts of a circuit	and nutrients around the body	pass through them. They block the light. translucent – translucent materials let some light			
take in water and nutrients	developed from earlier forms during the	conductor – allows electricity to flow	veins – carry deoxygenated blood to the heart	through, but scatter the light in all directions so hat			
non-vascular – plants that do not use roots	history of the Earth.	through it insulator – doesn't allow electricity to flow	the heart	they cannot see clearly through them			
and stems to take in water and nutrients	a parent to offspring and is held to determine	through it	heart rate – the number of times our heart	pass through them in straight lines so that you			
taxonomy - the scientific process of	some characteristics of the offspring.	mains power – electricity provided by power	beats per minute	cansee clearly through them			
grouping or classifying living organisms	natural selection: When the fittest, most adapted	pylon – a tower used for keeping electrical	Circulatory system – heart, blood, veins,	luminous – giving off light, bright or shining			
Also explain the terms; herbivore, carnivore, omnivore: the five main animal classification	organisms survive and multiply whilst the least	wires above the ground	arteries, puise, clotting Diet – balanced, vitamins, minerals,	surface			
groups (mammals, birds, fish, reptiles and	auapled die out.	renewable energy – energy from a source that is not depleted when used, such as wind	proteins, carbohydrates, sugars, fats	absorption – when light strikes a surface and			
amphibians) and the five main microorganism groups (bacteria viruses, protozoa, algae	transmission from parent to offspring.	or solar power	Drugs – caffeine, nicotine, alcohol,	is retained within it.			
and fungi).	organism: an individual animal, plant or single-celled	non-renewable energy – energy from a	Lifestyle – healthy	refraction – the "bending" of light when it			
	lite form.	coal, gas & oil		passes from one transparent material to			
				another.			

species: a group of similar organisms that are able		
to reproduce.		