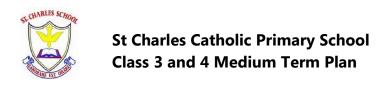
The Human Body – Advent 1						
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	
1. Cells and Nutrients	2. Teeth and Senses	3. Digestion	4. A Healthy Diet	5. Vitamins and Minerals	6. Knowledge Organiser Assessments	
Learning Objectives	<u> </u>					
Cells are the building blocks of the human body and we need nutrition to keep our bodies working as they should.	Identify the different types of teeth in humans and their simple functions.	To understand that our bodies digest our food.	To know how food is digested and excreted.	To know a healthy diet keeps our bodies healthy.	Post Knowledge Assessments	
Knowledge Goals All living things are made up of cells, too small to be seen without a microscope. Our bodies require nutrients to keep healthy. Nutrients are found in the food we eat.	Knowledge Goals There are four main different types of teeth: incisors, canines, pre-molars and molars. Incisors cut, canines te ar, premolars crush, m olars grind food. Humans have teeth for ripping and for grinding because we are omnivores	Knowledge Goals Digestion means breaking down the food we eat. Our bodies take things we need out of the food we eat. It is important to feed our bodies with healthy foods.	Knowledge Goals The stomach stirs up the food and mixes it with acid The intestines move the food around. The small intestine is a long coiled up tube that winds around inside your tummy. Whilst in the intestine, the nutrients are absorbed by the blood.	Knowledge Goals Our diet should include lots of different types of food. Our diet needs to provide all the nutrients our bodies need. Sugars are already naturally produced in many foods, such as fruit.		



Classification of Plants and Animals – Advent 2						
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	
1. Introduction to classification	2. Classes of vertebrates: Fish and Amphibians	3. Classes of vertebrates: Reptiles, Birds and Mammals	4. Classes of invertebrates: Insects, Arachnids and Molluscs	5. Classification of plants	6. Knowledge Organiser Assessments	
Learning Objectives	,			,		
To understand that we can classify animals and plants	I know that fish and amphibians are vertebrates	To know some of the key features of reptiles, birds and mammals	To understand and describe key features of insects, arachnids and molluscs	To know that plants can be classified into two main groups: flowering and nonflowering plants	Post Knowledge Assessments	
Knowledge Goals	Knowledge Goals	Knowledge Goals	Knowledge Goals	'		
A vertebrate is an animal with a backbone. An invertebrate is an animal without a back bone. Scientists sort living things using a process of classification.	Fish are cold- blooded vertebrates that live in water. Amphibians are coldblooded vertebrates that live both in water and on land. Fish have gills that help them to take oxygen from the water. rattlesnakes, cacti and tumbleweed.	Reptiles are coldblooded vertebrates with scaly skin. Birds are warmblooded vertebrates that can fly. Mammals are hairy, warm blooded vertebrates that breathe air	Insects are invertebrates, they have no backbone, six legs and three body parts Molluscs are invertebrates, they have no backbone and a soft body, some have shells. Arachnids are invertebrates, they have no backbone, eight legs and two body parts.	Knowledge Goals To know that a flowering plant produces flowers to make seed in order to reproduce To know that a nonflowering plant grows from spores instead of seeds.		

Ecology - Lent 1						
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	
1. Living Things and Habitats	2. Natural Cycles	3. Web of Living Things	4. Air Pollution—A Human Threat to the Environment	5. Ecology in our Local Areas	6. Knowledge Organiser Assessments	
Learning Objectives	}					
To know that living things depend on their habitats.	To understand that living things are linked within a food chain.	To know that living things depend on each other in an ecosystem.	To understand that air pollution is a human threat to the environment.	To know how humans have changed the environment in our local area.	Post Knowledge Assessments	
Knowledge Goals There are seven life processes which living things all have in common. A habitat is the natural home or environment of an animal, plant, or other organism. Living things depend on each other within their habitat.	Knowledge Goals A producer makes their own food using sunlight, water and nutrients. A consumer eats other living things to gain their energy. A decomposer breaks down the remains of dead living things into smaller pieces which leaves nutrients in the soil.	Knowledge Goals An ecosystem is the interaction of organisms in their environment. Every ecosystem is very delicately balanced, so if one organism is removed or a new one introduced it can have a negative impact on other organisms. Human beings are part of many eco	Knowledge Goals Pollution is any substance that is introduced into an environment that can damage or affect quality of life. Exhaust and smoke often contain harmful chemicals that pollute the air. Air pollution can damage ecosystems.	Knowledge Goals (insert as applicable to the change you are studying)		



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Sound - Lent 2						
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	
1. What is sound?	2. Speed of sound	3. Qualities of sound—Pitch and Volume	4. Human Voice	5. Ears- How we Hear	6. Knowledge Organiser Assessments	
Learning Objectives						
To understand how sound is produced and how it travels.	To know sound travels through the air.	To know the difference between pitch and volume.	To understand how the human voice makes different sounds	Vibrations in sound waves travel through the different parts of the ear.	Post Knowledge Assessments	
Knowledge Goals Sound is caused by a back and forth movement called vibration Sound waves move out from a vibrating object Sound can travel through different types of matter Sound is fainter further from the source	Knowledge Goals In warm air, sound travels at about 340 metres per second. The speed of sound in water is about four times faster than in air. There are jet aeroplanes that can travel as fast as sound.	Knowledge Goals Loud sounds are made by big vibrations. More energy is needed to make louder sounds. Quiet sounds are made by small vibrations. More vibrations every second makes higher pitched sounds.	Knowledge Goals When you sing a high note, your vocal cords vibrate very fast, hundreds of times a second. When you sing a low note, your vocal cords vibrate more slowly. Faster vibrations make a sound with a higher pitch. Slower vibrations make a sound with a lower pitch. The larynx is	Knowledge Goals We hear sounds when sound waves enter our ear, travel through it and messages are sent to our brain. The structure of the ear includes ear drum, bones called the hammer, anvil, and stirrup, cochlea. Hairs inside the cochlea are connected to nerves that carry the		



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				the muscles vibrate			ì			
				the vocal cords						

States of Matter - Pentecost 1						
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	
1. States of Matter	2. Evaporation	3. Condensation	4. Precipitation	5. The Water Cycle	6. Knowledge Organiser Assessments	
Learning Objectives	i	<u> </u>	<u> </u>			
To know that there are three main states of matter: solid, liquid and gas.	To know that evaporation occurs when water turns into gas.	To know that condensation occurs when water vapour turns into liquid water. (gas into water)	To know that precipitation returns water to the surface of the Earth.	To know how water changes state within the water cycle.	Post Knowledge Assessments	
Knowledge Goals There are three states of matter that water can form: solids, liquids and gases. Water exists in these states of matter in nature. Water can change into each state in	Knowledge Goals To know that water evaporates from all water sources (puddles, lakes, oceans even a cup). When water evaporates, it becomes water vapour. The	Knowledge Goals To know that condensation is when water vapour turns back into liquid. High in the sky the air is cooler and turns vapour back into water droplets.	Knowledge Goals Clouds are formed of millions of water droplets or ice particles if the air is very cold, their shape, size and colour can tell us what the weather will be	Knowledge Goals To know that water evaporates from all water sources (puddles, lakes, oceans even a cup). To know that condensation is when water vapour turns back		
both directions, we	amount of water in	There is always	like. When the	into liquid.		



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call this the Water	the air is called	water vapour in	water droplets get	Precipitation	
Cycle.	humidity.	the air and the	large enough,	returns water to	
		temperature	often in dark	the surface of the	
		changes its	cumulonimbus or	earth within the	
		appearance.	nimbostratus	water cycle	
			clouds they		
			precipitate and		
			fall as rain, sleet,		
			hail or snow.		
			Precipitation		
			returns water to		
			the surface of the		
			earth within the		
			water cycle.		

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
1. Electrical Safety	2. Parts of a circuit	3. Switches	4. Thomas Edison and Lewis Latimer	5. Investigating conductive and non-conductive materials	6. Knowledge Organiser Assessments
Learning Objectives					
To know that	To construct an	Switches open and	Thomas Edison	To identify	Post Knowledge
electricity is useful,	electrical circuit.	close a circuit.	invented the first	materials that	Assessments
but it can also be			lightbulb suitable	conduct	
very dangerous.			to use in homes.	electricity.	
Knowledge Goals	Knowledge Goals	Knowledge Goals	Knowledge Goals	Knowledge Goals	
Electricity can be	An electrical	A switch opens	Lewis Latimer	Materials that	
very dangerous. We	circuit is a loop	and closes a	invented a	allow electricity	
must use electricity	that allows	circuit. Opening a	lightbulb that	to pass through	
safely to make sure	electricity to	circuit prevents	could last for a	them are	
it is not a danger to	travel around it.	electricity from	long time. A long	conductors.	
us. We can use	An electrical	flowing.	time ago, electric	Materials that do	
electricity safely by;	circuit must have	Sometimes we	lighting was used	not allow	
not putting fingers in	wires and a	need to stop	in streetlights	electricity to pass	
plug sockets, not	battery. If a	electricity from	before it was used	through them are	
using electrical items	circuit is broken,	flowing for safety	in people's homes.	insulators. Many,	
with wet hands and	electricity will not	reasons, switches		but not all metals	
checking that wires	be able to flow	help to do this.		conduct	
are not frayed.	around it.			electricity.	