Year 3 and 4 - Plants					
Prior Learni	ng	Concepts			
 I know plants are living. I know plants need water, light and suitable temperature. I can explain the meaning of deciduous (sheds its leaves annually) and evergreen (does not lose its leaves) plants. I can name and explain functions of parts of a plant including roots (anchor and collect water), flower (attract bees), leaves (make food), stem (support and transport water). 		Formation	the way in which a thing is formed.		
		Function	the purpose or role that an object or a person fulfils or is suited for.		
Vocabulary		Diagram			
	to drive away in all directions; scatter. something in food that helps people, animals, and plants live and grow. to move or carry pollen to a plant, causing the seeds to be fertilised. the process by which living things create young or offspring. the act or fact of continuing to be alive or survive. a means of carrying or transporting. ts take water and nutrients from the soil.		Flower The flower makes seeds for the plant. Stem The stem supports the plant. It contains thin tubes for carrying food, minerals, and water through the plant. They take in carbon dioxide and release oxygen into the air.		
2. The <u>stem</u> holds the plant upright and <u>transports</u> water around the plant.3. The leaf is where food is made. Plants make their own food.		_	roots The roots soak up water and minerals. They also store food for the plant.		
4. The flower attracts bees to ensure pollination.					
5. Flowers produce <u>seeds</u> to make new plants.					
6. Seeds of animals.	an be dispersed by the wind, explosion, water and				

	Year 3 and 4 - Animals	Tricludina Humar	ng
Prior Lear		Concepts	
 I know it is good for my body to exercise regularly, eat a balanced diet, sleep around 10-12 hours per night and be hygienic. I know plants and animals are suited to their habitat such as a polar bear in the Arctic. 		Protection	the act of keeping something safe from harm or the condition of being protected.
 I can identify parts of a simple food chain such as grass, rabbit and fox and know animals often hunt to obtain their food. I know the body parts that relate to the senses are the nose, eyes, ears, hands and mouth. 		Support	bear all or part of the weight of; hold up.
Vocabulary		Diagram	
2. There	the food and drink usually eaten and drunk by a person or animal. separate food groups with different functions for the body such as protein, carbohydrates, dairy, fats, fruit and vegetables, a particular action or way of changing place or position tissue in the body of animals and humans that moves parts of the body. the act or process of eating and using the nutrients in food for living and growing. the inner framework of bones and cartilage in vertebrate animals. cts imals have a skeleton. e are three functions of the skeleton these are to protect, rt and for movement.	Skull Ball & Socket Joint (shoulder) Humerus Pelvis Hinge Joint (knee)	Fixed Joint (parieto - temporal) Vertebra Sternum Rib Biceps Rectus Abdominus (abdominus) (abdominus) Femur Quadriceps
 Names of the main bones in the body are: skull, ribcage, femur, kneecap, tibia, fibula and spine. Muscles work in pairs to allow movement such as the biceps and triceps in the arm. 		Tibia——	Fibula
muscle 6. There	e muscle <u>contracts</u> becoming shorter and fatter, the other <u>e relaxes</u> becoming longer and thinner. e are five food groups that we eat for different reasons hydrates, fruits and vegetables, fats and oils, dairy and		

<u>protein.</u>

Year 3 and 4 - Rocks						
Prior Learning		Concepts				
 I know there are different types of materials such as plastic, metal, wood and fabric and that materials have different uses. I know rocks are used to make different types of buildings. I know rocks are different properties such as the shape, 		Formation	the way in which a thing is formed.		is formed.	
 texture and colour. I know soil is part of the ground and plants grow in soil. I can identify what is dead, alive or never lived. 		Properties	a quality that something is known by; characteristic.		is known by;	
Vocabul	ary	Diagram				
Fossil Humus Layers Natural Organic	the remains or trace of a living animal or plant from a long time ago. a material that is made up of partly decayed leaves and plants. Humus adds nutrients to soil and helps it hold water. a section of something that alternates with a different material from top to bottom. of or produced by nature; not made by humans. produced or producing naturally, without using pesticides or other added chemicals.			— Humus — Topsoil	Plants and animals die and sink to the bottom of the s	
Soil	the top layer of the earth's surface	The state of the s	a a			
	is made up of elements such as grit, organic matter and erals.	0.70		— Subsoil	The plant and animal layer gets covered with mud.	
· · · · · · · · · · · · · · · · · · ·	ks come in many <u>different forms</u> and they can look very erent.			— Weathered	3	
3. Roc	ks that allow water to pass through are <u>porous</u> rocks.			rock fragments	Over time, more sediment creates pressure, compress	
4. Rocks can change shape, appearance or texture due to weathering.					the dead plants and animals into oil.	

Bedrock

Oil moves up through porous rocks and eventually forms

5. Fossils help us to learn about the past, they are often formed

when an animal or plant dies.

6. Fossils are only found in sedimentary rock.

	Year 3 and	4 - Light		
Prior Learning		Concepts		
 I know that it is dangerous to directly look at the sun. I know the amount of light we have in a day changes during the different seasons. 		Source	the start or cause of something.	
 I know materials reflect light and some are better than others at doing this such as mirrors or shiny surfaces. I know shadows are created when something goes in front of a light source. 		Travel	to move forward in any way. to journey from place to place.	
Vocabul	ary	Diagram		
Dark Eye Light	having little or no light. the organ of the body that gives animals sight, and the area close around it.	Light ob		rom avels
Reflect	the form of energy that makes it possible for the eye to see. to throw back an image of or from a surface; mirror.		reflects into the	eye.
Shadow	the dark image cast on some surface by a something blocking the source of light.		object.	~
Sun	the star in the middle of our solar system. The earth and other planets revolve around it and receive heat and light from it.		Pupil	Iris
Key F	Facts		11. 20	
. We n	eed light to <u>see</u> with our <u>eyes</u> .	Part of the second		
2. Light can only travel in <u>straight lines</u> .			AT - A	
3. Light sources can be <u>natural</u> (fire and the sun) or <u>manmade</u> (torch and electric lamp). The <u>moon</u> is not a light source.				
4. Light <u>reflects</u> off surfaces and some surfaces <u>reflect</u> light				
bette	better than others.		SMALLED TINV SHADOL	

5. It is <u>dangerous</u> to look directly at the <u>sun</u> and it can hurt our

6. Shadows are formed when the light is blocked by a solid object.

eyes.

LARGE SHADOW when the toy is close to the light SMALLER
SHADOW when the
toy is further from
the light

TINY SHADOW when the toy is a long way from the light

	Year 3 and 4 - For	ces and Magne	ets		
Prior Lear	ning	Concepts			
 I know magnets "stick" to materials such as metal. I know magnets are used in different objects such as doors, laptops and toys. I can identify different types of materials like plastic, metal, wood and rock, including different surfaces around us. I know there are different forces such as pushing and pulling. 		Force	power, energy, or physical strength.		
		Surface	the outside or top layer of something.		
Vocabular	" Y	Diagram			
Attract	to cause to come near.				
Magnet	an object that has the power to pull items made of iron toward itself.	S	Attract S N		
Magnetic	having to do with magnets and the way they work.	3			
Material	anything used for building or making something else.				
Pole	either of a magnet at which the field of the magnet is most intense.	_			
Repel	to ward off or force back.		Damal		
Key Facts			Repel		
1. Magnets have two poles North and South.		S	N S		
2. Opposi	te poles of a magnet <u>attract</u> and same poles <u>repel.</u>				
3. Materials that magnets attract are called <u>magnetic</u> .			Repel		
4. Not all metals are magnetic.		N	s s N		
5. Many forces need contact of objects, magnets do not need					
contact to create a force.					
6. Objects move differently on different <u>surfaces</u> . Rough <u>surfaces</u>		7			
•	create more friction and smooth surfaces create less friction.				
Creare	THOLO THE HOLL AND SHIPOTH SALL LACES CLEAR 1633 THE HOLL				