



What I should already know	What I will learn		Important wo	rds to help n	ne. (vocabul	ary)	Ideas for Scientific Enquiry
- The names of different everyday	Which are the best materials for everyday objects? - I will learn how to choose a type of material for	Waterproof	An object that do	bes not allow wa	ter to pass throu	gh it.	- Explore the types of
materials such as wood, plastic and	a particular job correctly, thinking about the materials properties and uses.	Transparent	Something that is	s clear and see t	hrough.		materials you can find in the classroom environment. - Sort different types of materials based on how waterproof they are, how transparent they are, how easily they can break, how strong they are and what they look like.
metal. - The purpose of	- I will be able to explain how objects made from some materials can be changed for different	Rubber	An object that ca	n bend and is w	aterproof.		
each material and what different	everyday uses.	Hard	Something that o	loes not wear ea	asily.		
materials are used for.	Which is the most waterproof material? - I will learn about materials that are waterproof	Soft	Something that o	an be squashed	or shaped easily		
- How to group different materials	ow to group and understand that waterproof materials do not	Metal	A shiny material	that is a good co	onductor of elect	ricity.	
based on their		Wood	A material mainly	/ used for furnitu	ure.		
properties.	Which material is more transparent? - I will learn about materials that are transparent	Plastic	A long lasting ma	aterial which is w	vaterproof, strong	g and lightweight.	Fair / Comparative Testing - Explore and test the
Interesting Facts	and understand that transparent materials are clear and see through.	Material	The matter from	which a thing is	or can be made	from.	different kinds of waterproof and transparent materials,
 Polymers are the raw materials used to make what we commonly call plastics. Silver conducts electricity better than any other metal. Wood is turned into paper in large factories called paper mills. 	clear and see through. Which objects change when heated or chilled? - I will learn about materials that change in different temperatures. Which is the best material to build a house? - I will explore different materials and test strength, durability and waterproofness. I will learn that brick is the best material to build a house as it is waterproof, durable and strong.	Plastic	Wood	Metal	Rubber	Fabric	 including those you can find in the classroom environment. Compare different types of materials by saying what is similar and what is different using scientific vocabulary. Secondary Sources Research and explain why materials are used for different purposes based on properties.



Leamington Primary Science Knowledge Organiser Year 2 – Living Things and their Habitats Strand – Biology



What I should already know	What I will learn		Important words to help me. (vocabulary)	Ideas for Scientific Enquiry Classifying and Grouping - Explore the types of life cycles in animals and humans and explain why animals survive in different habitats which are suited for them. - Explore the different kinds of food chains, labelling the producer, consumer, prey and predator. - Compare different types of food chains and habitats by saying what is similar and what is different using scientific vocabulary. - Sort different types of animals based on if they are a carnivore, herbivore or an
- How to spot and name a variety of common animals.	What do animals need to survive? - I will learn about the needs of animals to be able to survive such as a safe place to sleep and	Dead	Something that is no longer alive or living.	
 Carnivores are meat eaters and 	neat eaters and xamples ofWhat is a food chain? - I will explore food chains and understand that within a food chain there must be a producer, consumer, prey and predator which depend on each other as a source of food and ability to lant eaters and xamples or erbivores areWhere do animals live? - I will explore the different habitats of animals heep.Omnivores eat oth plants andOf weather and how they keep themselves safe	Producer	A living thing that makes its own food.	
examples of carnivores are		Consumer	A living thing that uses or eats something.	
humans.		Never lived	A word to describe something that has never been alive.	
plant eaters and		Prey	An animal that is hunted and killed by another for food.	
herbivores are		Predator	An animal that naturally preys on others.	
sheep.		Food chain	A series of organisms each dependent on the next as a source of food.	
both plants and		Habitats	The natural home or environment of an animal, plant, or other organism.	
animals. Interesting Facts	from predators. What is the different between dead and alive?	Life cycle	The series of life changes in an animal, plant or human.	

- Herbivores (such	- I will be able to explain the difference between	omnivore.
as deer, elephants,	things that are living such as humans and animals,	- Sort different types of living
horses) have teeth	things that are dead such as skeletons and wood,	things based on if they are a
that are adapted to	and things that have never been alive such as	producer, consumer, prey or
grind vegetable	plastic materials and metals.	predator.
tissue. - Small predators have good hearing and a strong sense of smell. Most small predators are nocturnal.		 Secondary Sources - Use secondary sources to gain further information on things that are alive, dead or never lived.



Leamington Primary Science Knowledge Organiser Year 2 – Plants Strand – Biology



What I should already know	already knowHow do seeds grow into plants? - I will plant, look after and observe the changes of how a seed grows into a plant. - I will explore the different stages of the life cycle 	I	mportant words to help me. (vocabulary)	Ideas for Scientific Enquiry Fair / Comparative Testing - Explore the perfect conditions for a plant to grow. - Compare different types of trees (deciduous/evergreen) by saying what is similar and what is different by using scientific vocabulary. Secondary Sources - Use secondary sources to
- How to spot and name some		Deciduous	A tree that sheds its leave annually.	
garden plants.		Germination	The development of a plant from a seed.	
- Deciduous trees shed their leaves		Photosynthesis	The process that plants produce their own food.	
annually. - Evergreen trees		Temperature	The degree or intensity of heat present.	
keep their green leaves throughout the year.		Roots	The part of a plant which attaches it to the ground and provides the anchor.	
- How to label, name and describe		Evergreen	A plant or tree that keeps its green leaves throughout the year.	
the basic structure		Reproduction	The production of offspring in an animal or human.	gain further information on the jobs of the different parts
of a plant.	What is photosynthesis? - I will I earn that Photosynthesis is a chemical		·	of the plant.

Interesting Facts	reaction that takes place inside a plant, producing food for the plant to survive. Carbon dioxide,	Life cycle	The series of life changes in an animal, plant or human.	- Explore the different stages of the life cycle of a plant in
- Bees or the wind pollinate most	water and light are all needed for photosynthesis	Flower	The part of the plants that blossoms.	Observation Overtime
plants. Once seeds form, the wind or animals carry them to new places to grow. - Some plants are carnivorous. They eat insects. - Bamboo is an extremely rapid growing plant	 Why are the roots of a plant so important? I will look at the roots of a plant and learn that the roots main job is to anchor the plant down into the ground. I will also learn that the roots of a plant play a vital role in sucking up the water and nutrients from the soil. 		Germination Seed Dispersal 1 Roots 5 Bean 2 Signification Plant 2 Signification Flowering Leaves	- Observe the changes overtime as a plant grows in different conditions.



Leamington Primary Science Knowledge Organiser Year 2 – Animals including Humans Strand – Biology



What I should already know	What I will learn		Important words to help me. (vocabulary)	Ideas for Scientific Enquiry
senses of the body, smell, taste, hear,	 What is a life cycle? I will learn and be able to explain that animals, including humans, reproduce and have babies which grow into adults and this process is known as a life cycle. What is offspring? Offspring is the young from an animal or human. I will match different types of young to their parents and explain how parents help to keep their young healthy and safe. 	Healthy	In good health being in good mental and physical condition.	Pattern Seeking - Explore the types of life cycles in animals and
- How to compare the structure of a		Offspring	A human or animals young.	humans and explain the different stages.
variety of common animals.		Grow	Natural development by increasing in size and changing physically.	- Explore the different kinds of offspring and match parents to their young.
- How to name, draw and label the basic parts of the human body and		Hygiene	Maintaining health and preventing disease, especially through cleanliness.	- Explore patterns in life cycles in animals and humans such as how they
say which part of	How do I keep healthy?			numans such as now they

the body is to do with each sense.	- I will learn about the importance of exercise and how exercise makes our body feel different.	Reproduce	To create offspring of an animal of human.	feed their young.
	- I will explore how different types of exercise	Nutrition	The process of providing or obtaining the food	Classifying and Grouping
	effects our body in different ways such as running		necessary for health and growth.	- Compare different types of
	supports our fitness levels and gymnastics			life cycles in animals and
	supports our flexibility.	Unhealthy	Not having or showing good health.	humans saying what is
	- I will explore eating healthily and compare			similar and what is different
	healthy and unhealthy foods.	Life Cycle	The series of life changes in an animal, plant or	by using scientific
	- I will be able to plan a well-balanced diet and		human.	vocabulary.
	understand that food comes from different food			- Sort different types of
Interesting Facts	groups such as fats, protein, carbohydrates, diary			foods based on if they are
	and fruit and vegetables.		Sitter of	healthy or unhealthy
Common contraction				
- Germs can enter	What is good hygiene?			Secondary Sources
our bodies through	- I will learn about good hygiene and understand		Elderty -	- Use secondary sources to
the mouth, nose,	good practice when it comes to keeping clean and		child	gain further information on
eyes and breaks in	understand that germs can make people sick. - I will explore ways of keeping clean such as			germs and staying clean and
the skin without our	washing my hands, changing my clothes regularly			hygienic.
even knowing we've	and looking after my teeth.		Adolescent Special Conditions	nygienic.
been infected.	and looking after my teeth.			
- A new born child				
can breathe and			Adult	
swallow at the same				
time for up to seven				
months.				
- Your skull has 29				
different bones.				