

2023/2024 EYFS Understanding the World	Spring 1	Spring 2	Summer 1	Summer 2
Lead Enquiry Question (Composite Outcome)	Understanding the world What will I find down on the farm? Animals and plants link to KS1 science	Understanding the world Are we there yet? Pushes and pulls KS1 science link	Which house will you choose?  Materials KS1 science link	Can I find a star fish in the woods? Animals- minibeasts KS1 science link
Component Questions (components to be explored throughout the unit)	CQ1: Can I name different groups of farm animals?  CQ2: Can I talk about farm animals?  CQ3: Can I compare habitats?  CQ4: Can I observe and discuss changes in plants and seeds?  CQ5: Can I explain where the food we eat comes from?	CQ1: Can I experiment pushing a car on a flat surface?  CQ2: Can I experiment pushing a car on a ramp?  CQ3: Can I experiment with different surfaces on a ramp?  CQ4: Can I experiment with different objects and water?	CQ1: Can I discuss different materials and predict strength? CQ2: Can I investigate the strength of materials? CQ3: Can I plant beans?	CQ1: Can I hunt for minibeasts?  CQ2: Can I identify different minbeasts?  CQ3: Can I explain where you might find minibeasts?
Assessment Checkpoint	Children who are <b>secure</b> will be able to:  ✓ Name and classify animals ✓ Explore a range of animals ✓ Know that we can eat some plants ✓ Identify and name farm animals and their young	Children who are <b>secure</b> will be able to:  ✓ Investigate plants and forces ✓ Investigate objects that float and sink ✓ Identify different objects	Children who are <b>secure</b> will be able to:  ✓ Create houses using different materials ✓ Investigate how strong materials are ✓ Plant beans ✓ Identify what plants need	Children who are <b>secure</b> will be able to:  ✓ Identify and name common minibeasts ✓ Explain where minibeasts are most likely to be found



2023/2024 Year 1	Spring 1	Spring 2	Summer 1	Summer 2
Lead Enquiry Question (Composite Outcome)	Materials What are materials?	Uses of materials How can materials be used?	Plants What is a plant?	Seasons How do seasons change?
Component Questions (components to be explored throughout the unit)	CQ1: What are different materials called?  CQ2: What is the difference between an object and a material?  CQ3: What are the properties of materials?  CQ4: Which objects are natural and which are manmade?  CQ5: Which objects will float?  CQ6: Which materials are best for different objects?	CQ1: How can a structure be strong?  CQ2: What makes something waterproof?  CQ3: What properties does glass have?  CQ4: Which materials make furniture?  CQ5: What properties do fabrics have?  CQ6: Why are certain materials suitable for certain things?	CQ1: How does a seed grow into a plant?  CQ2: What are the basic parts of a plant?  CQ3: How can different plants grow in the same environment?  CQ4: What is the difference between evergreen and deciduous trees?  CQ5: Are fruits and vegetables plants?	CQ1: How many seasons are there?  CQ2: What changes happen in Autumn?  CQ3: What happens in winter?  CQ4: What changes happens in spring?  CQ5: What is summer like?  CQ6: How can you measure rainfall?
Assessment Checkpoint	Children who are secure will be able to:  ✓ Predict which materials will float ✓ Name and identify common materials ✓ Explain the difference between an object and the material that makes it ✓ Describe the properties of materials	Children who are secure will be able to:  ✓ Name and identify common materials ✓ Explain the difference between an object and the material that makes it ✓ Describe the properties of materials ✓ Comapre and group materials based on properties	Children who are secure will be able to:  ✓ Identify and name a variety of common plants ✓ Describe the basic structure of plants and trees	Children who are secure will be able to:  ✓ Observe changes across the 4 seasons ✓ Observe and describe weather associated with the seasons ✓ Investigate ways to measure and compare rainfall



2023/2024 Year 2	Spring 1	Spring 2	Summer 1	Summer 2
Lead Enquiry Question (Composite Outcome)	Materials How can I group materials?	Living things and their habitats- Land focus How are animals suited to their habitats?	Plants What do plants need?	Living things and their habitats- Sea focus How are animals suited to their habitats?
Component Questions (components to be explored throughout the unit)	CQ1: What are different materials used for?  CQ2: What materials are suitable to build a bridge?  CQ3: Which materials are stretchy?  CQ4: How can materials change their shape?  CQ5: How are materials suitable for different purposes?  CQ6: Which materials change shape?	CQ1: What is the difference between living things, dead things and things that have never been alive?  CQ2: What is a habitat?  CQ3: What do animals need to survive in a habitat?  CQ4: What is a food chain?  CQ5: How does food get from farm to supermarket?	CQ1: What is the difference between seeds and bulbs?  CQ2: What do plants need to grow?  CQ3: What os the life cycle of a plant?  CQ4: How long does a plant take to grow?  CQ5: How do plants adapt to suit their environment?	CQ1: How does the environment change?  CQ2: What is life like in the ocean?  CQ3: What is an arctic habitat like?
Assessment Checkpoint	Children who are <b>secure</b> will be able to:  ✓ Identify and compare the suitability of materials for particular uses ✓ Investigate how the shapes of objects can be changed	Children who are <b>secure</b> will be able to:  ✓ Explore and compare living/dead/never alive things ✓ Identify how animals adapt to their habitats	Children who are <b>secure</b> will be able to:  ✓ Describe and observe how seeds/blubs grow into plants ✓ Find out how plants need water, light and temperature to grow	Children who are <b>secure</b> will be able to:  ✓ Create a model of a habitat ✓ dentify how animals adapt to their habitats ✓ Identify and name living things in their habitat



✓ Identify and name living	✓ Know the difference
things in their habitat	between seeds and
✓ Explain how animals	bulbs
obtain their food from	
plants and other animals	

2023/2024 Year 3	Spring 1	Spring 2	Summer 1	Summer 2
Lead Enquiry Question	Plants	Light	For	ces
(Composite Outcome)	How do plants survive?	What is light?	What is	a force?
Component Questions (components to be explored	CQ1: What factors affect plant growth?	CQ1: How are shadows formed?	CQ1: What is magnetism?	
throughout the unit)	CQ2: What are the functions of	CQ2: How do we know light travels in a straight line?	CQ2: What can different magnets	s do?
	plant parts?	CQ3: What are different mirrors	CQ3: How do magnetic fields work?	
	CQ3: How does water move in plants?	for?	CQ4: How does a compass work?	
	CQ4: What is the life cycle of a	CQ4: How does a periscope work?	CQ5: How does the surface affect	t friction?
	plant?	CQ5: How do reflective surfaces	CQ6: What forces are out there?	
	CQ5: What is pollination?	keep us safe?		
		CQ6: How do we protect ourselves from the sun?		



Assessment Checkpoint	Children who are <b>secure</b> will be	Children who are <b>secure</b> will be	Children who are <b>secure</b> will be able to:
	able to:	able to:	✓ Use the term friction to describe how things move on
	✓ Describe what a plant	✓ Notice that light is	different surfaces
	needs to grow	reflected from surfaces	✓ Investigate the way magnets attract or repel each other
	✓ Explain methods of	✓ Associate shadows with	✓ Compare the magnetism of different materials and make
	pollination	light	conclusions about them
	✓ Investigate the life cycle	✓ Describe that light from	✓ Describe a variety of forces
	of a plant	the sun can be dangerous	✓ Explore how a compass works
	✓ Explore the functions of a	✓ Explain how we can stay	✓ Use poles to describe magnets and predict whether they
	plant	safe in the dark	will repel or attract each other.
	✓ Describe how water	✓ Investigate how a	
	moves in a plant and is	periscope works	
	important for plants		

2023/2024 Year 4	Spring 1	Spring 2	Summer 1	Summer 2
Lead Enquiry Question	Living things: Conservation	Sound	Electricity	Animals including Humans-
(Composite Outcome)	What is conservation?	How do we hear?	How does electricity work?	digestion
				How do we digest food?
Component Questions	CQ1: What is an ecosystem?	CQ1: How does sound travel?	CQ1: How is electricity	CQ1: What is the role of
(components to be explored			transported?	salivary glands and taste buds?
throughout the unit)	CQ2: How is nature balanced?	CQ2: What causes sound?		
			CQ2: When will a lamp light?	CQ2: What are vitamins and
	CQ3: How do humans impact	CQ3: Does sound travel faster		minerals?
	ecosystems?	than light?	CQ3: What are the basic parts	
			of a circuit?	CQ3: What are the different
	CQ4: What is air pollution?	CQ4: How do sounds differ?		types of teeth?
			CQ4: What are conductors and	
	CQ5: What is water pollution?	CQ5: How does sound travel in	insulators?	CQ4: How does the digestive
		different states of matter?		system work?



	CQ6: How do we conserve water?  CQ7: How can we change the future?		CQ5: What are series and parallel circuits?	CQ5: What is the food pyramid? CQ6: What is a food chain?
Assessment Checkpoint	Children who are secure will be able to:  ✓ Recognise that environments can change and that this can pose a threat to living things ✓ Investigate different types of pollution ✓ Explain how we can conserve water ✓ Develop ideas for conservation	Children who are secure will be able to:  ✓ Identify the way sounds are made ✓ Describe how sounds travels using the word vibration ✓ Investigate how sound travels through different states of matter ✓ Compare the speed of sound and light	Children who are secure will be able to:  ✓ Identify things that run on electricity ✓ Construct simple electrical circuits ✓ Identify and name parts of a circuit ✓ Recognise common conductors and insulators ✓ Explain if/why a lamp will light or not in a simple circuit	Children who are secure will be able to:  ✓ Explain what makes a good diet  ✓ Describe the different teeth and what they are used for  ✓ Identify and describe the parts of the digestive system  ✓ Classify animals based on specific characteristics  ✓ Make and explore food chains

2023/2024 Year 5	Spring 1	Spring 2	Summer 1	Summer 2
Lead Enquiry Question	Living things: Life Cycles	Materials-properties	Materials- changes	Animals including humans
(Composite Outcome)	How do life cycles of	How do the properties of	How can materials	How do humans change?
	different animals differ?	different materials differ?	change?	



Component Questions (components to be explored throughout the unit)	CQ1: What are the life processes of a plant?  CQ2: What are the life processes of an animal?  CQ3: How do the life cycles of insects and amphibians compare?  CQ4: How do the life cycles of birds and reptiles compare?  CQ5: What are David Attenborough and Jane Goodall famous for?	CQ1: What properties do materials have?  CQ2: What are thermal conductors and insulators?  CQ3: Which materials are hard?  CQ4: Which materials are soluble in water?  CQ5: How are materials soluble?  CQ6: How can mixtures be separated?	CQ1: How can evaporation recover a solute from a solution?  CQ2: What is a reversable change?  CQ3: How are new materials made?  CQ4: What is rust?  CQ5: What makes a burning reaction?  CQ6: What is a chemical reaction?	CQ1: What are the key stages of a mammals life cycle?  CQ2: What is the gestation period of mammals?  CQ3: What is foetal development?  CQ4: How does age impact hand span?  CQ5: What changes are experienced during puberty?  CQ6: What changes might humans experience in old age?
	CQ6: Can you present the life cycle of a specific animal?			
Assessment Checkpoint	Children who are <b>secure</b> will be able to:  ✓ Describe the life cycles of different animals ✓ Research animals ✓ Compare and contrast the life cycles of different types of animals	Children who are secure will be able to:  ✓ Compare and group materials based on hardiness, solubility, conductivity and magnetism ✓ Investigate how some materials will dissolve ✓ Use knowledge of solids, liquids and gasses to decide how mixtures should be separated ✓ Give reasons for the uses of particular materials	Children who are secure will be able to:  ✓ Describe how to recover a substance from a solution ✓ Demonstrate that dissolving, mixing and changes of state are reversable changes ✓ Explain that some changes result in the formation of new materials ✓ Compare reversable and irreversible changes	Children who are <b>secure</b> will be able to:  ✓ Describe the changes as humans develop to old age ✓ Investigate the correlation between age and hand span ✓ Explain the life cycle of a mammal ✓ Describe and identify changes in the human life cycle

2023/2024 Year 6	Spring 1	Spring 2	Summer 1	Summer 2
Lead Enquiry Question (Composite Outcome)	Evolution and Inheritance What is evolution?	Living things and habitats	Animals: Circulation What does blood do?	Lifestyle, diet and exercise How does lifestyle affect
				our bodies?
Component Questions (components to be explored	CQ1: How do offspring vary?	CQ1: How can I classify living organisms?	CQ1: What is the function of the heart?	CQ1: What makes a good diet?
throughout the unit)	CQ2: How have animals adapted?	CQ2: What are the kingdoms of	CQ2: What are blood vessels?	CQ2: How does exercise affect the body?
	CQ3: How do plants adapt?	life?	·	,
	CQ4: What can we learn from fossils?	CQ3: What is the Linnaean system?	CQ3: What is blood? CQ4: How does the body	CQ3: What impact does our lifestyle have on us?
	CQ5: What is the theory of evolution?	CQ4: What are the characteristics of different types of microorganisms?	transport water and nutrients? CQ5: What affects your heart rate?	
		CQ5: What is asexual reproduction?	CQ6: How do drugs and alcohol affect the body?	



Assessment Checkpoint  Children who are secure will be able to:  ✓ Discover links between extinct animals and those living today ✓ Describe the theory of evolution ✓ Research the work of Charles Darwin and Mary Anning	Children who are <b>secure</b> will be able to:  ✓ Classify living things ✓ Identify the kingdoms of life ✓ Investigate mould growth	Children who are secure will be able to:  ✓ Identify the parts of the circulatory system ✓ Describe the function of the heart, blood vessels and blood ✓ Recognise the impact of diet, exercise drugs and lifestyle ✓ Describe how nutrients and water are transported in animals	Children who are secure will be able to:  ✓ Describe the impact of lifestyle, diet and exercise on the body ✓ Investigate the impact of exercise
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