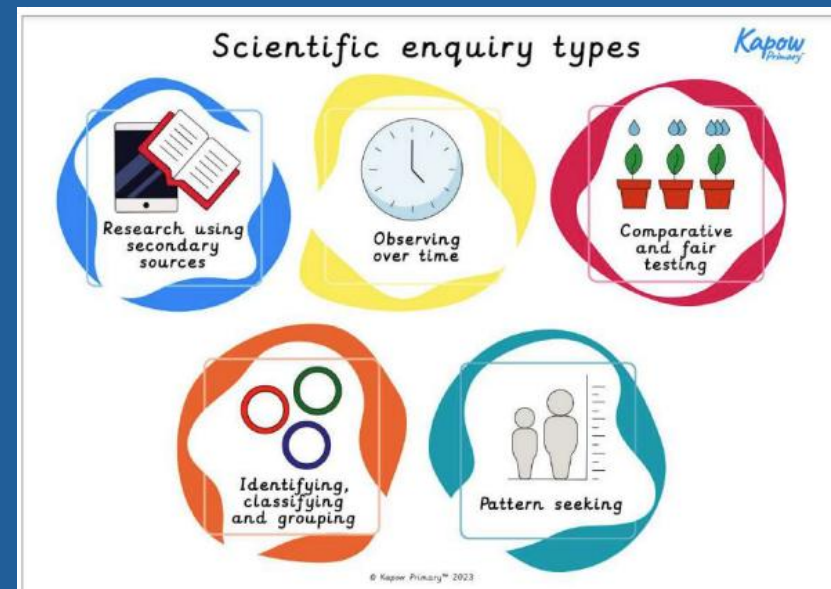


Thinking like a Scientist:

- Observe the world around us, asking questions and systematically investigating the answers
- Analyse and interpret data
- Obtain, evaluate and communicate information
- Understand the nature, processes, methods and skills of science to answer scientific questions
- Understand the application and implications of science, today and for the future.

Working scientifically- Different types of enquiry



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	Animal Adventures	Animal Adventures	Changing Seasons	Changing Seasons	Our beautiful planet	I am a scientist
Year 1	Animals Including Humans: Sensitive Bodies	Animals Including Humans: Comparing Animals	Materials: Everyday Materials	Forces & Space: Seasonal Change	Plants: Introduction to Plants	Making Connections
Year 2	Animals Including Humans: Life Cycles and Health	Materials: Uses of Everyday Materials	Living Things: Habitats	Living Things: Microhabitats	Plants: Growth	Making Connections
Year 3	Animals Including Humans: Movement & Nutrition	Forces & Magnets	Rocks & Soil	Light & Shadows	Plants: Reproduction	Making Connections
Year 4	Electricity & Circuits	Sound & Vibrations	Animals Including Humans: Digestion & Food	States of Matter	Living Things: Classifying & Changing Habitats	Making Connections
Year 5	Living Things: Life Cycles & Reproduction	Materials: Mixtures & Separation	Earth & Space	Materials: Properties & Changes	Forces: Imbalanced Forces	Human Timeline/Making Connections
Year 6	Animals Including Humans: Classifying Big and Small	Animals Including Humans:	Evolution & Inheritance	Electricity: Circuits, batteries and switches	Light & Reflection	Making Connections

		Circulation and Exercise				
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Key areas in Science

Animals, including humans



Identifying animals, their basic structure and their eating habits, as well as their basic needs for survival. Children learn about the life cycles of animals and their place in food chains.

Naming parts of the human body and recognising the function of skeletons, muscles, teeth and the digestive and circulatory systems. Learning about the importance of hygiene and of the right type and amount of nutrition. Children learn about the impact of diet, drugs and exercise on the body and study the life cycles of humans.

This key area covers the Year 1, Year 2, Year 3, Year 4, Year 5 and Year 6 subject content titled 'Animals, including humans' from the National curriculum.

Living things and their habitats



Identifying something as living and how it is grouped based on its characteristics, similarities and differences.

Naming different types of habitats, learning what they provide for life and the impact of habitats changing. Children learn about the life cycles and reproduction of animals and plants, and how this affects the variation of living things around us, past and present.

This key area covers the Year 2, Year 4, Year 5 and Year 6 subject content titled 'Living things and their habitats' and 'Evolution and inheritance' from the National curriculum.

Plants



Identifying different plants and their key structures, growing seeds and plants and understanding their requirements for growth. Recognising the function of different plant structures and understanding how plants reproduce.

This key area covers the Year 1, Year 2 and Year 3 subject content titled 'Plants' from the National curriculum.

Materials



Naming materials, describing their properties and understanding why materials have specific uses. Identifying how materials may change and the factors that may contribute to this, including changes of state within the water cycle. Children learn about different mixtures and how they can be separated based on their properties.

Identifying different types of rocks and their physical properties, and understanding how fossils and soil are formed.

This key area covers the Year 1, Year 2, Year 3, Year 4 and Year 5 subject content titled 'Everyday materials', 'Uses of everyday materials', 'Rocks', 'States of matter' and 'Properties and changes of materials' from the National curriculum.

Energy



Learning about light and its properties, how it enables us to see and how shadows are formed. Identifying the relationship between sounds, volume, pitch and vibrations, and how sound travels to the ear.

Recognising electrical appliances and the components that make up different circuits. Building electrical circuits and identifying factors that affect the output.

This key area covers the Year 3, Year 4 and Year 6 subject content titled 'Light', 'Electricity' and 'Sound' from the National curriculum.

Pupils will develop **Scientific knowledge and understanding** in seven key areas. The learning in each area is summarised below:

Forces, Earth and space



Identifying changes across the seasons, and the weather and day length associated with each.

Recognising different types of forces and understanding their effect on objects, including the role of pulleys, levers and gears. Children learn about magnetic materials and that magnets attract and repel.

Learning about the movements of planets and moons within the solar system and how this relates to our day and night.

This key area covers the Year 1, Year 3 and Year 5 subject content titled 'Seasonal changes', 'Forces and magnets', 'Earth and space' and 'Forces' from the National curriculum.

Making connections



[Finding the optimum: the science subject report](#) (Ofsted, 2023) states that schools should ensure that teachers

'regularly connect new learning to what pupils have already learned. This includes showing pupils how knowledge from different areas of the curriculum connects.'

One of the ways in which we do this is through our Making connections units, which give pupils opportunities, beyond the National curriculum programme of study, to make connections between their science learning.
