YEAR 6 HEP SCIENCE CURRICULUM MAP RATIONALE

- The Year 6 HEP Science curriculum is about diving deeper into scientific concepts and applying more advanced thinking. Students explore a range of ideas, including the human circulatory system, evolution, and electricity.
- They're encouraged to ask questions, analyse functions and relationships, and understand the changing nature of scientific ideas.
- This year is key for developing systematic enquiry skills, understanding abstract concepts, and critical thinking required in secondary education.

Animals Including Humans

Light

Electricity

Evolution and Inheritance

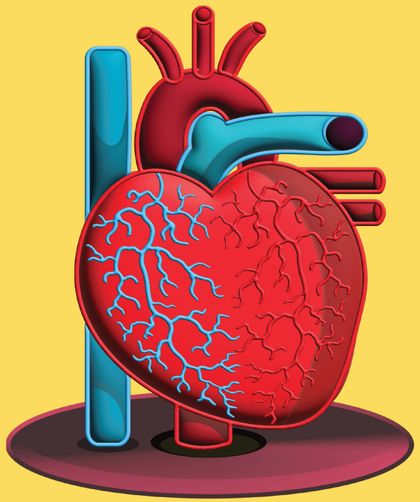
Living Things and Their Habitats

Transition Unit

AUTUMN 1 - ANIMALS INCLUDING HUMANS

Animals Including Humans

Year 6



- This unit explores the human circulatory system, the effects of lifestyle on body function, and nutrient transportation in animals.
- As an introduction to year 6, it builds on prior knowledge from Years 3 and 4 about human anatomy and nutrition, offering a deeper understanding of internal body systems.

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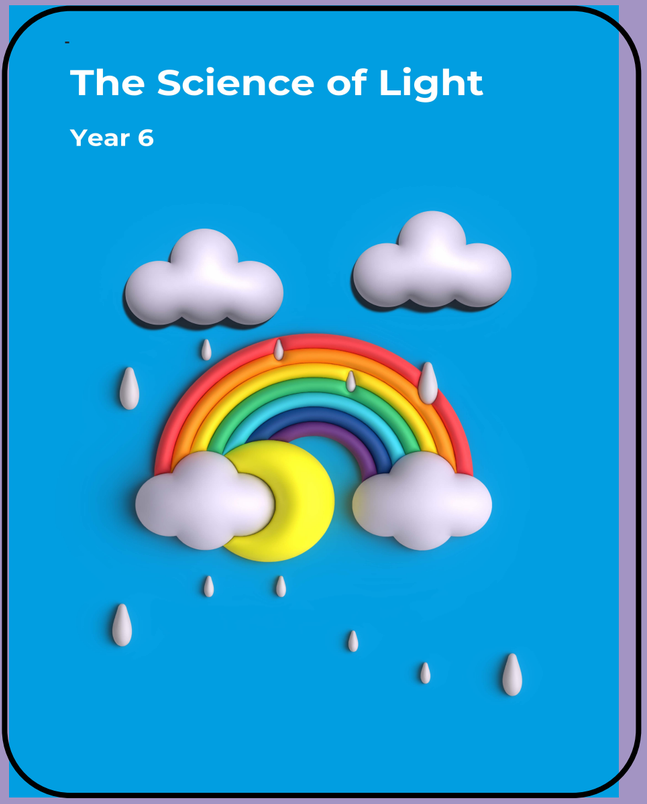
AUTUMN 2 -THE SCIENCE OF LIGHT



- This unit focuses on the properties of light, including its travel in straight lines and the formation of shadows.
- Advances from Year 3's basic concepts of light, enhancing understanding of its behaviour and introducing more complex ideas like reflection and vision.
- Light is a type of energy that is directly observable.

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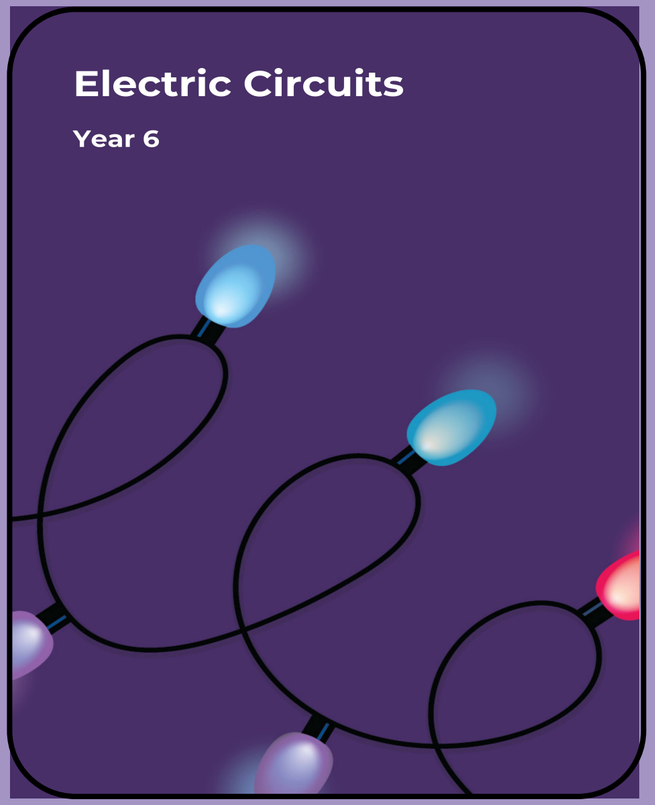
SPRING 1 - ELECTRIC CIRCUITS



- Moving to Electricity immediately after Light allows students to transition from a concept they can directly observe (light) to one that requires a bit more abstract thinking (electricity).
- Both involve energy and its transfer, but electricity introduces complexities like circuit construction and the role of different components, which can be more challenging.

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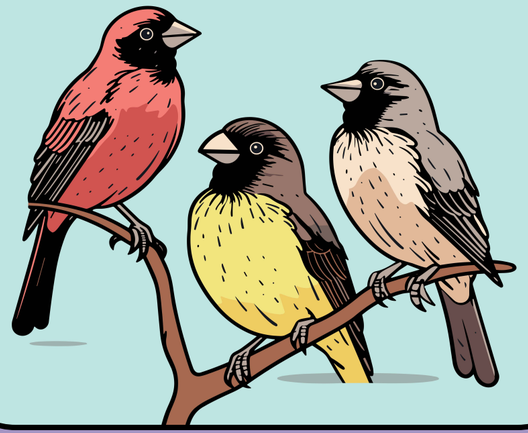
SPRING 2 - EVOLUTION AND INHERITANCE

Evolution and

Inheritance

Year 6



- The Evolution unit starts with the big picture – how species have changed over time, addressing the concepts of inheritance and adaptation.
- This sets a foundation for understanding the diversity of life and how different species have adapted to their environments, which is crucial for the Living Things and Their Habitats unit.

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SUMMER 1 - LIVING THINGS AND THEIR HABITATS

Living Things and Their Habitats

Classification

Year 6

- In Living Things and Their Habitats, students then apply this understanding by exploring the classification of living organisms and the specific characteristics that make certain habitats suitable for certain life forms.
- After learning about evolution, they can better appreciate the variety in habitats and why certain organisms thrive in particular environments. It's a natural step from understanding the history of life forms to seeing how they fit into today's world.

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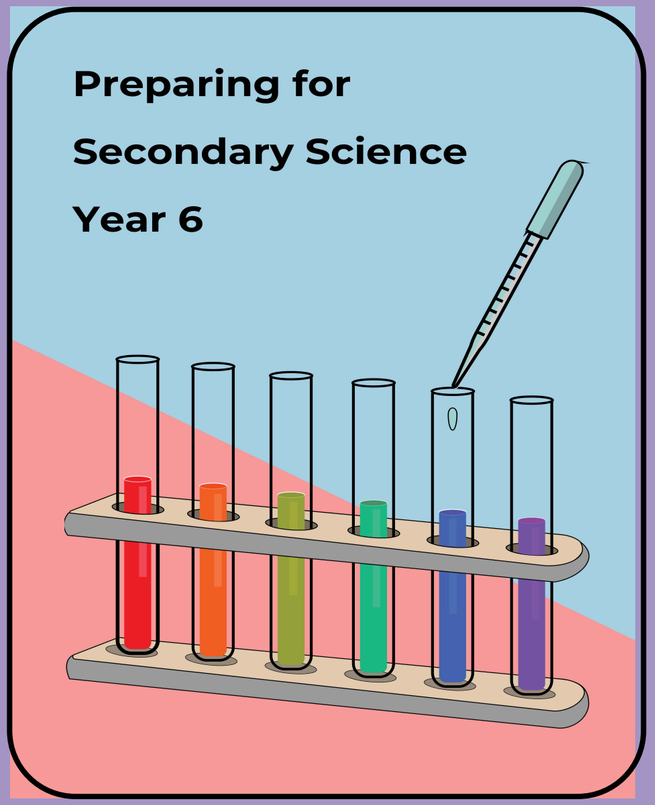
SUMMER 2 - PREPARING FOR SECONDARY SCIENCE



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