



Science

Our TRUST Curriculum Principles

A Kaleidoscope Schools curriculum has been designed to enable children to develop wide knowledge/ skills and become well rounded and confident individuals who are curious and want to learn. Schools design and develop their own curriculums but encapsulate the following which are linked to the Kaleidoscope 5C's.





Intent

Our science curriculum is designed to ignite curiosity, foster critical thinking, and equip pupils with the knowledge and skills they need to understand and engage with the world around them. We believe that Science is not just a subject—it is a lens through which children can explore real-world phenomena, solve problems, and make informed decisions about their lives and the environment.

Implementation

Science is taught weekly across all year groups using a carefully sequenced curriculum that builds knowledge and skills over time. Lessons follow the National Curriculum and are designed to be engaging, practical, and inclusive.

We implement our science curriculum by:

- **Delivering lessons with clear learning objectives**, ensuring progression in scientific knowledge and enquiry skills.
- **Using practical investigations** to help children explore concepts and develop curiosity.
- **Embedding key vocabulary** to support scientific understanding and communication.
- **Making links across subjects**, especially with maths, English, and computing, to deepen learning.
- **Providing opportunities for outdoor learning**, real-life contexts, and visits to enrich science experiences.
- **Assessing learning regularly**, using questioning, observation, and simple tasks to check understanding and inform teaching.
- **Supporting all learners**, including those with SEND, through adapted resources and targeted support.

Teachers use high-quality resources and CPD to stay confident and up-to-date with science teaching. Our approach ensures that all pupils develop a strong foundation in science and are well-prepared for future learning.

Impact

Assessment sheets



ART National Curriculum Milestones (Trust Milestones)

Key Theme	Reception	KS1 (Y1–Y2)	KS2 (Y3–Y4)	KS2 (Y5–Y6)
Plants	Children explore their immediate environment and learn about the natural world. Observing Plant Growth	Identifying and classifying plants Exploring what plants need to survive, such as water, food, and light.		
Animals including humans	Looking at animal behaviours	Identifying and classifying plants Exploring what animals need to survive, such as water, food, and light.	Learning about different body systems, such as the digestive and respiratory systems.	Studying the heart, blood vessels, and the importance of a healthy lifestyle.
Materials	Encouraging children to ask questions and make observations about their surroundings.	Investigating materials like wood, plastic, and metal, and understanding their uses and properties.	Studying different types of rocks and soils and learning about how fossils are formed.	Exploring how materials change state, such as melting, freezing, and dissolving.
Forces			Understanding how forces like push and pull work and exploring magnetic attraction and repulsion.	
Earth and Space				Learning about the solar system, the movement of planets, and the phases of the moon.