

ED&I Curriculum Principles – Science

1) Our curriculum is designed with an EDI lens

- Children study science through hands-on investigations and practical enquiry, ensuring all children can access learning regardless of language or literacy ability.
- Learning builds progressively from early exploration in EYFS (senses, weather, plants and animals) to more complex scientific concepts in KS2 such as forces, electricity, evolution and the circulatory system, ensuring all children develop secure scientific understanding over time

2) Our curriculum reflects our society

- Children explore how science affects everyday life, including health, diet, exercise, materials, environments and technology.
- Learning about humans, animals, habitats and environmental change helps children understand the world they live in and the impact people can have on the environment and living things.

3) Our curriculum broadens horizons and incorporates multiple perspectives

- Children are introduced to a wide range of scientific ideas, discoveries and real-world applications, helping them understand how science shapes modern society.
- Opportunities are provided to learn about different habitats, environments and ecosystems, encouraging children to consider how living things adapt and survive in diverse conditions

4) Our curriculum prioritises emotional safety and is intentional in preventing emotional harm

In Science

- Sensitive topics such as human development, life cycles and reproduction are taught in an age-appropriate and respectful way, ensuring children feel safe and supported.
- Learning environments encourage curiosity, questioning and respectful discussion, where children feel confident to share ideas and make mistakes as part of the scientific process

5) Our curriculum actively challenges stereotypes and discrimination

In Science

- Children are encouraged to see science as a subject for everyone, promoting curiosity, collaboration and problem solving for all learners.
- Scientific enquiry emphasises evidence, questioning and critical thinking, helping children challenge misconceptions and develop open-minded attitudes towards scientific ideas and discoveries.