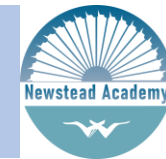




Science

Knowledge and Understanding of the World

At Newstead we believe in aspiration and achievement for all



Intent – what we aim to achieve

Science is an essential part of our curriculum, supporting pupils to develop their knowledge, curiosity and understanding of the world around them. Through practical, sensory and meaningful experiences, we provide opportunities for every pupil to participate, explore, ask questions and experience success.

Our science curriculum enables pupils to develop their scientific knowledge and enquiry skills through learning about plants, animals including humans, everyday materials, forces, light and shadows, weather and the seasons. Learning is carefully adapted to pupils' individual needs and stages of development, enabling them to observe, explore, investigate, make choices, notice changes and begin to make connections between their experiences.

Through science, we aim to develop pupils' curiosity, independence, communication and problem-solving skills, helping them to make sense of their environment and apply their learning to meaningful, real-life experiences.



Implementation - how we will achieve our aims

Spiral Curriculum

Our science curriculum follows a spiral model, allowing pupils to revisit key scientific concepts, consolidate prior learning and build knowledge and understanding over time.

Learning is adapted across our three pathways. Explorers learn through sensory, practical experiences; Discoverers develop their ability to observe, explore, compare and communicate what they notice; and Adventurers build scientific knowledge through increasingly structured enquiry and investigation.

Across all pathways, science is practical, meaningful and accessible, with opportunities to develop curiosity, communication, independence and scientific vocabulary.

Oracy

Oracy is woven throughout our science curriculum, providing pupils with meaningful opportunities to listen, communicate, question and share their ideas. Key scientific vocabulary and definitions are explicitly taught and regularly revisited, at a pace appropriate to the needs and stage of development of each cohort, supporting pupils to understand and use scientific language with increasing confidence.

Independence & Life skills

Opportunities to develop independence and essential life skills are fundamental, enabling pupils to apply their scientific learning to practical, meaningful and real-life experiences.

Objective Led

Our science curriculum is objective-led, ensuring learning is purposeful and focused on what we want pupils to know, understand and be able to do.



Impact - how we will know we have achieved our aims:

We will know our science curriculum is successful when pupils build and retain scientific knowledge, develop curiosity about the world around them and confidently use their learning in new and meaningful contexts. Pupils will demonstrate progress from their individual starting points, using appropriate scientific vocabulary and developing increasing independence, enquiry skills and confidence through practical experiences.