

Science Intent

It is our belief that children at Castledyke should have a broad and balanced curriculum that gives them the skills and knowledge they need to become respectful, resilient and empathetic citizens, who will have the opportunity to thrive. Our intent for science is for the children to

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics.
- develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to ask and answer scientific questions about the world around them.
- children are equipped with the scientific skills required to understand the uses and implications of science, today and for the future. We understand that it is important for lessons to have a skills-based focus, and that the knowledge can be taught through this.
- learn about key scientists and learn how they have changed the world in which we live.

Our curriculum is linked to our four key areas of development:

<p><u>All children are successful by</u></p> <ul style="list-style-type: none">● Developing scientific knowledge and understanding.● Being able to reason and articulate their ideas to others.● Solving problems in real life contexts by asking and answering scientific questions.● Exploring potential careers and jobs in the arena of science.	<p><u>All children are ready for lifelong learning by:</u></p> <ul style="list-style-type: none">● Developing confidence.● Developing independence and resilience.● Being able to work in a team.● Learn through asking and answering questions.
<p><u>All children are respectful by:</u></p> <ul style="list-style-type: none">● Developing kindness, empathy and compassion.● Celebrating diversity and inclusivity by learning about a diverse range of scientists and how they have contributed to society.● Being culturally aware of their community and world.● Understanding the importance of being a good citizen.	<p><u>All children are safe by:</u></p> <ul style="list-style-type: none">● Developing oracy and communication skills.● Consider how to work safely with scientific equipment.● Understanding healthy relationships and managing conflict.