

## Computing 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 computing is to

- provide a high-quality computing education which equips children to use computational thinking and creativity to understand and change the world.
- teach children key knowledge about how computers and computer systems work, and how they are designed and programmed. Learners will have the opportunity to gain an understanding of computational systems of all kinds, whether or not they include computers.
- enable all learners to develop key knowledge and skills in the three main areas of the computing curriculum: computer science (programming and understanding how digital systems work), information technology (using computer systems to store, retrieve and send information) and digital literacy (evaluating digital content and using technology safely and respectfully).

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