



## Computing at Northowram Primary School

*Inspiring Success Beyond Expectation*

### **Intent**

At Northowram Primary School, through our Computing curriculum, we aim to expand children's understanding of a range of technology and to develop pupil's appreciation of its capabilities. Our desire is to create a knowledge-based practical curriculum that gives the children the chance to create, manage, organise and collaborate with technology. Our Computing curriculum is split into the areas of: Computing systems and networks, Programming, Creating media, Data handling and Online safety. Our online safety units are taught in the Autumn Term of each year so that this crucial knowledge can be embedded and retrieved throughout the year. Children learn about the history of computers, the way that computers have been used and developed over the last century (including looking at their use during the World Wars and the way that computers are being used to Forecast Weather and in Space). We aim to develop pupils' confidence when encountering new technologies by enabling children to interact with a range of software and programs including programming, exploring and debugging. The transferrable skills that the children will learn are vital in the ever evolving and changing landscape of technology. Through our curriculum, we intend for pupils not only to be digitally competent and have a range of transferable skills for the future, but also to be responsible for their online use and presence.

### **Implementation**

Our Computing curriculum is delivered through Computing Days in Years 1 - 6. There is one Computing Day for each unit that is taught in the year group. These days enable maximum lesson time as devices and resources can be readily organised. Our curriculum includes using hardware such as: desktop Windows enabled computers, iPads, microbits and Beebots and software such as: Scratch, Python, spreadsheets and search engines. The Computing Days will be split into individual lessons throughout the day with different knowledge and skill objectives. Our lesson sequence follows that of our other foundation subjects where prior learning is recapped, vocabulary is discretely taught, key knowledge goals are explained and discussed and children are given the opportunity to apply their new learning. Children complete tasks independently, within groups and pairs dependent on the knowledge and skill goals for the lesson. Each individual lesson has content that is scaffolded so that learning is inclusive, age-appropriate and maintains high expectations. Children's work is individually recorded in exercise books from Year 1 onwards.

### **Impact**

By the end of Key Stage 2, pupils will leave Northowram Primary School equipped with a range of skills to enable them to be successful in their secondary education and be active participants in the digital world. Children will be critical thinkers and know how to make informed and appropriate digital choices in the future. They will understand the importance that computing will have in their futures; including in their education, work and social lives. Pupils will understand how to balance the time they spend on technology and time spent away from it. They will understand how different types of software and hardware can help them achieve a broad variety of artistic and practical aims. They will have a variety of technical skills relating to the National curriculum through computer science, information technology and digital literacy. They will be aware of online safety issues and will develop their knowledge annually of how to be responsible online and how to deal with any problems. They will also have an awareness of developments in technology and have an idea of how current technologies work and relate to one another.

We measure the impact of our Computing curriculum through monitoring work, listening to the children's attitudes about Computing through pupil voice interview and by completing whole-school book looks. Children's knowledge and skills build progressively throughout school and are assessed through recap sessions, task completion and end of unit quizzes.