# Computing at Blaydon West Primary School

At Blaydon West Primary School, we place a great emphasis on the importance of Computing. We ensure that all pupils are provided with a range of experiences to develop their skills, knowledge and understanding that will prepare them to be part of the digital world we now live in. We want our pupils to be responsible and competent users of technology as it plays an integral part of their lives now and in the future.

## Intention

In our **Early Years Foundation Stage**, we aim to:

- Provide opportunity for children to access electronic devices with a range of age appropriate programs
- Develop a first understanding of how to use technology safely

In **Key Stage 1 and Key Stage 2**, children study the National Curriculum for Computing and we aim to:

- Develop pupils who are responsible, competent, confident and creative users of information and communication technology
- Provide opportunity for pupils to understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- Encourage children to analyse problems in computational terms, and have repeated practical experience of writing and de-bugging computer programs
- Give children the opportunity to evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- Develop children's knowledge and skills so they become digitally literate and are active participants in a digital world

## Implementation

Every class in KS1 and KS2 is taught computing once a week, following the NCCE Teach Computing scheme. Our planning shows clear progression in both skills and knowledge and provides pupils with a range of experiences.

- Lessons are planned by teachers following the skills and knowledge progression to ensure there is a progressive curriculum across the whole school.
- Lessons include both online and unplugged components
- Whole school projects take place throughout the year e.g. Safer Internet Day

Online safety is explicitly taught and embedded throughout the curriculum.

- Lessons are practical and engaging.
- Lessons provide appropriate challenge for all groups of children.
- CPD is used to support teacher knowledge.

- Children use and apply skills across different software
- Correct use of computing vocabulary modelled by staff in lessons



**Impact**

- Engaged, inspired and challenged children
- Confident and independent programmers and technicians
- Pupils who value computing
- Pupils computing work is of good quality
- Pupils who understand how to behave safely and effectively online
- Reflective and responsible online users

We will measure the impact of our computing curriculum through the following methods:

- A reflection on standards achieved against planned outcomes
- Evidence of work saved on individual google log ins
- Pupil discussion on their learning during computing lessons
- Staff feedback
- Dedicated computing lead time

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