ASPIRE • SUCCEED • LEAD
LADY ROYD PRIMARY
BRADFORD GIRLS' GRAMMAR SCHOOL CAMPUS
For girls and boys up to 11 years

Curriculum Intent – Computing

Our Vision

Lady Royd Primary School's vision is to provide an exceptional education: rich in learning opportunities in a supportive and nurturing environment that challenges our pupils to raise their aspirations and to develop the confidence and resilience to reach their full potential.

Our ASPIRE values provide a strong focus on the personal development of every child; encouraging accountability, self-confidence, perseverance, integrity, respect and empathy for those around them, pupils will leave as well-rounded, confident, independent young people, fully prepared to take their place in the world.

The aims of the curriculum

- Provide a broad and balanced educational experience that meets the needs of the pupils, introducing them to the best that has been thought and said and preparing them to be well-educated 21st century citizens.
- Take account of the previous learning of pupils and their readiness for new experiences
- Stretch the most able whilst providing enrichment for all pupils.
- Provide personalised support for pupils with additional needs.
- Ensure that the curriculum in place at any given time provides an appropriate and relevant educational experience and that no pupils are disadvantaged by its provisions.

Intent

By the end of primary school, a child at Lady Royd will:

- Be provided high quality computing education that equips pupils to use computational thinking and creativity to understand and be able to contribute to the rapidly changing world.
- Pupils will develop an understanding and application in the fundamental principles and concepts of computer science by having the opportunity to write programs, design webpages and produce professional digital products to evaluate and analytically solve problems.
- Computing skills are a major factor in enabling children to be responsible, confident, competent, creative, and independent learners and it is our intention that pupils at Lady Royd have every opportunity available to allow them to achieve this.
- Pupils will be exposed to a diverse curriculum which will effectively prepare them with the knowledge, skills, and technical vocabulary to fully embrace a future of rapidly advancing computer technology.

Implementation

EYFS

In EYFS we begin to educate our children on keeping safe when using technology, whether that is physical aspect of using devices or using digital technology. We develop the use of fine motor skills, for example using of the mouse pointer when playing educational games to reinforce phonics and numeracy lessons. We begin to express ourselves through the use of digital art packages which allows our children to learn about colour and shapes.

Key Stage 1

In Key Stage 1 the curriculum is designed to allow all pupils to understand:

- What algorithms are; how they are implemented as programs on digital devices, to create and debug simple programs.
- Use logical reasoning to predict the behaviour of simple programs.
- Recognise common uses of information technology beyond school.

All pupils will be given the opportunity to use technology purposefully to create, organise, store, manipulate and retrieve digital content. E-safeguarding is taught from Year 1 to ensure our pupils can use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies. Pupils will be taught to use technology purposefully to source and manipulate digital content, recognise common uses of information technology beyond school.

Key Stage 2

In Key Stage 2 we build on the knowledge from KS1 to:

- Design, write and debug programs that accomplish specific goals, to solve problems by decomposing them into smaller parts.
- Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.
- Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.
- Understand computer networks including the internet; how they can provide multiple services, such as the world wide web and the opportunities they offer for communication and collaboration.
- Collect, analyse, evaluate, and present data and information using a variety of applications on a range of digital devices.

E-safeguarding is revisited in every year to make sure our pupils can use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. We teach our pupils how to use technology safely, recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

Impact

The purpose of assessment within Computing is to test the knowledge and practical skills of students throughout the varied topics that they study via formative and summative assessment. In KS1 and KS2 this is done via observation of work, questioning and pupil interviews. The computing curriculum is designed to revisit key computing concepts throughout the years from Year 1 to Year 6. Children at Lady Royd will become confident in using and understanding key vocabulary in Computing.

Our recent e-Safeguarding audit (May 2024) also highlighted the quality and strength of our e-Safeguarding provision.

Reviewed: May 2024

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Reviewed by: NSE

Next Review: May 2025