

Computing Progression Map

Our Computing curriculum takes the National Curriculum and divides it into 3 strands of study: **Foundations**, **Applications** & **Implications**.



FOUNDATIONS - Understanding and applying computer science

KS1 NATIONAL CURRICULUM

- 1.1 understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
- 1.2 create and debug simple programs
- 1.3 use logical reasoning to predict the behaviour of simple programs

KS2 NATIONAL CURRICULUM

- 2.1 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- 2.2 use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- 2.3 use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs



APPLICATIONS - Using digital technology with purpose

KS1 NATIONAL CURRICULUM

- 1.4 use technology purposefully to create, organise, store, manipulate and retrieve digital content

KS2 NATIONAL CURRICULUM

- 2.5 use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- 2.6 select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information



IMPLICATIONS - Understanding and using the Internet safely, responsibly and respectfully

KS1 NATIONAL CURRICULUM

- 1.5 recognise common uses of information technology beyond school
- 1.6 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.

KS2 NATIONAL CURRICULUM

- 2.4 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
- 2.7 use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.