



Pawlett Primary
School Academy

'Learning together. Growing together'

Computing subject leadership

1) What is the intent?

In computing: What is the intent behind the sequence of learning / curriculum?

(Following the national curriculum)

- Through the teaching of computing, children will become **competent, confident, creative and safe** users of information and communication technology.
- Children will be proportionally taught e-safety, programming, multimedia, data handling and technologically in our lives modules progressively across KS1 and KS2.
- Children will be able to understand and apply the **fundamental principles** and **concepts of computer science**, including abstraction, logic, algorithms and data representation.
- Children will be taught to **analyse** problems in computational terms, to **evaluate** and apply information technology, including new or unfamiliar technologies, analytically to solve problems and have repeated practical experience of writing computer programs.
- All children will develop the understanding to use logical reasoning to **predict** the behaviour, outcomes and issues of simple programs.
- Children should be able to recognise the common uses of information technology beyond school and its future growth.
- In KS1, children will be taught how algorithms are used to program digital devices, how to create and debug simple programs and how to use technology purposefully to create, organise, store, manipulate and retrieve digital context.
- In KS2, children will be taught to design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts and to use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. By the end of KS2, children will be able to select, use and combine a variety of software 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.

Internet Safety

At Pawlett Primary School Academy we have and follow an E-Safety policy that provides guidance for teachers, children and parents and careers about how to use the internet safely. Every year group participates in e-safety lessons and children learn how to stay safe when using technology.

In computing, all children will be taught how to use technology safely, respectfully and responsibly; keeping personal information private; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and who to contact regarding internet or other online technologies.

2) Implementation – computing subject leaders will use:

- Lesson observations / check ins
- Long term and medium term planning – (does it show a learning journey?) a sequence of lessons, any links to learning enquiries, building upon prior knowledge etc?
- Learning enquiry walls, learning enquiry big books (if enquiry links are made), class twitter pages / website pages, class files on the p-drive to show what has been taught
- Pupil conferencing
- Talk to teachers – are they teaching the intended curriculum?

3) What is the impact?

- Pupil conferencing – are children using the key vocabulary, understanding key principles around e-safety and the different elements of computing?
- Do children remember what has been taught?
- Can children talk about their learning experiences and how these skills and knowledge can be used in the future?

4) What will excellence look like in computing?

- Teachers know the intent of computing – why we are teaching what we are teaching
- There is a very clear journey in computing which constantly makes links to and builds on previous learning
- Children will speak confidently and enthusiastically about the knowledge they have gained – including specific knowledge around **e-safety, programming, data handling, technology in our lives and multimedia.**
- Children are using technically accurate computing and technological **vocabulary**
- Children can use of **different computing software's** confidently.
- Children can makes links between technology and computing in school, the outside world and their future.
- Children have a clear sense of **e-safety**.