Herons' Moor Academy

Statement of Intent - Computing

I am a computer scientist. I study computers and computing, including their theoretical and algorithmic foundations, hardware and software, and their uses for processing information. As a computer scientist, I am developing innovative ways of exploring information, and what I am able to do with it: enhancing my own thinking skills through algorithms, logic, visualisation, precision, and abstraction. I understand that computational thinking involves and illuminates other disciplines and the collaboration of these are vital, when addressing the advances in technology, and the inventive ways to use it. I am interested in pushing the boundaries of invention and transformation, using technology to creatively solve problems around me.

We believe that, in this rapidly progressing aspect of modern life, it is imperative that children gain confidence and an understanding of the ways in which modern technology can be used as an effective learning tool. The children at Herons' Moor have the opportunity to use laptops, desktop computers, iPads, digital cameras, a variety of programmable floor robots and interactive whiteboards as part of their learning. At Heron's Moor Academy, we are very well resourced, with a wide range of up to date computing technology. Teachers actively encourage and support pupils to use technology to boost their learning across the curriculum. Children learn to become 'programmers' as well as 'users' of computers and mobile devices, using a wide range of software and online applications.

E-safety is given a high priority in both citizenship and computing and is a key part of every computing planning unit. All children develop their understanding of how to stay safe on-line and become responsible users of technology.

Implementation – Computing

At Herons' Moor Academy, our Computing curriculum is based on the learning objectives set out in the National Curriculum 2014 document. This is expanded in the Cabot Learning Federation "I am a Computer Scientist" document.

What you will see at Herons' Moor:

Planning

- Long Term Plan: National Curriculum 2014 and CLF planning document
- Medium Term Plan: Purple Mash overview adapted to our calendar
- Lesson Plan: Purple Mash units and practice time
- Recording of planning: See appendix 1

Marking and Assessment

- Work handed in electronically by children to be assessed by the teacher at least once per unit

Homework

- All KS2 children are expected to complete 15 minutes TTRS practice each week.
- Occasional additional homework may be set using apps or web browsers.
- Children who do not have access to technology at home can be offered the chance to complete technology based homework in school.

Apps

- Regularly used apps in all year groups: Numbots, Times Tables Rock Stars, Spelling Shed and Purple Mash
- All children are to be created a log in for school apps on entry to the school
- Log in details are to be recorded in planners during "Getting Started" weeks
- Log in details are stored T:\Children's Passwords
- Missing log in details are dealt with by Kate Amor (Numbots, TTRS, PM) and Teresa Wright (SS)