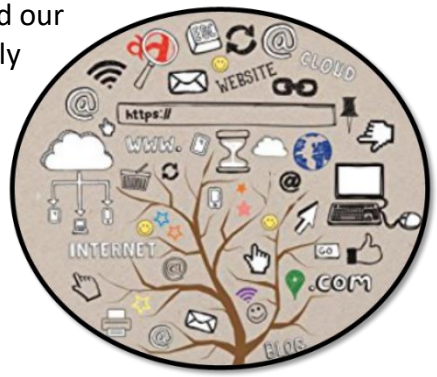
Honeywell Junior School COMPUTING

At Honeywell Junior School, we understand the immense value that technology plays not only in supporting the computing and whole school curriculum but overall, in the day-to-day life of our school. Our aims are to fulfil the requirements of the National Curriculum for computing whilst also providing enhanced collaborative learning opportunities, engagement in rich content and supporting pupil's conceptual understanding of new concepts which support the needs of all our pupils.

"A high-quality computing education equips pupils to use computational thinking and creativity to understand and change the world…core of computing is computer science, in which pupils are taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming. Building on this knowledge and understanding, pupils are equipped to use information technology to create programs, systems and a range of content." National Curriculum. Our computing curriculum aims to develop the heart and mind of every child. Computing teaching at Honeywell Juniors has deep links with mathematics, science and design and technology and our aim is to provide a broad and balanced curriculum whilst ensuring that pupils become digitally literate and digitally resilient. Technology is ever evolving and we aim to develop pupils who can use and express themselves, develop their ideas through, information and communication technology at a suitable level for the future workplace and as active participants in a digital world.



Pupils will develop knowledge of **Computer Science** provides the foundational knowledge required to understand and interpret the other areas of the computing curriculum. Therefore, it is important that we provide a computing curriculum that is rich in computer science knowledge, information technology and digital literacy.

By the time they leave us in Year 6 we want them to have

- An understanding of how and why technology is used in the outside world, and in the workplace. They know about different ways that computers can be used.
- acquired and use vocabulary in computing, including coding,
- Been taught to stay safe online and can articulate well about the potential risks of being online, and can talk about ways to keep safe.
- Begun to make sense of and to contribute positively to our technologically diverse world.
- developed their knowledge, skills and confidence, driving positive change in their perceptions of computing.
- digital literacy, and prepared for the future
- good grounding of computational thinking and problem solving so they are prepared for opportunities that will arrive their way.
- thinking that will allow pupils to be better equipped in tackling mathematical, scientific or engineering based problems
- developed knowledge that enables technical innovation and be more informed and active participants in our increasingly digital society.