

# Computing



## IN A NUTSHELL



### Our Computing Intention

At King's Stanley Primary School our computing curriculum intends to teach all pupils the skills to support the challenges and opportunities offered by the technologically rich world in which we live

### *Developing computing skills for the future*

- The 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.
- Our Computing curriculum also ensures that pupils become digitally literate – able to use, and express themselves and develop their ideas through, information and communication technology – at a level suitable for the future workplace and as active participants in a digital world.
- Our curriculum is concerned with how computers and computer systems work, and how they are designed and programmed.
- Pupils gain an understanding of computational systems of all kinds, whether or not they include computers. This is important as it allows us to solve problems, design systems, and understand the power and limits of human and machine intelligence.
- Pupils also learn how to navigate their online world safely, with progressive lessons taught in-depth to each year group.

### *Our Computing curriculum design*

- Our curriculum is designed on three foundations:
  - **Digital literacy**
  - **Computer science**
  - **Information technology**
- These elements taught progressively through each year group
- **Computer Science**, pupils are taught the principles of information and computation, how digital systems work and how to put this knowledge to use through programming.
- Pupils are equipped with the knowledge and skills to use **Information Technology** to create programs, systems and a range of content.
- **Digitally literacy** – allows pupils to express themselves and develop their ideas to take an active part in a digital world and use technology safely, respectfully and responsibly.

### *Assessment*

- Children are assessed at the end of each unit of work against the Progression Pathways Assessment Framework. This is aligned to the CAS primary guidance document.

### *IMPACT*

Pupils leave King's Stanley competent and safe users of ICT. They will have developed skills to express themselves and be creative in using digital media and be equipped to apply their skills in Computing to different challenges going forward.