

Inspiring and enabling our school community to live life to the full



YEAR 5

Subject: Computing
Unit: Computing Systems and networks –
Sharing information

Characteristics of an Effective Learner

Courage
Commitment
Collaboration
Creativity
Curiosity

We aim to equip pupils to use computational thinking and creativity to understand and change the world; to become digitally literate –using, and expressing themselves and developing their ideas through, information and communication technology. They will build on this knowledge and understanding, becoming equipped to use information technology to create programs, systems and a range of content– at a level suitable for the future workplace and as active participants in a digital world

Prior Learning:

Key concepts from Education for a connected World: copyright
Year 2 Computing Systems and Networks – IT in the classroom
Year 3 Computing Systems and Networks – connecting computers
Year 4 Computing Systems and Networks - The Internet

Key Vocabulary taught in this unit:

System, connection, digital input, process, output, protocol, address, packet, chat, explore, slide deck, reuse, remix, collaboration

Intent: What do we want the children to know, be able to do by the time they complete this unit?

- **Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts**
Identify tasks that are managed by computer systems; suggest strategies to ensure successful group work; compare work online
- **Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a arrange of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.**
Use of the internet to collect, analyse and create information
- **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**
Explain that systems are built using a number of parts; describe computer systems features, inputs, processes and outputs, explain how computer systems communicate; recognise that data is transferred; digital devices have unique addresses
- **Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content**
Understand the need to be selective when collecting information from the internet
- **Use technology safely, respectfully, and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.**
Understand the ownership of data uploaded and downloaded from the web; recognise that connected devices can allow access to shared files

Impact / Outcome: What will the final product / result be?

Children will develop their understanding of computer systems and how information is transferred between devices. They will create an online collaborative project which will also use the Scratch programming to modify other people’s work.

P4C Inquiry (where appropriate)

N/A

