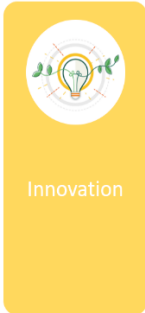




Enriching lives every day; enabling our school community to learn, achieve and flourish through living 'life in all its fullness'



Subject: Computing

Year group: 5

Term: Autumn Term

Unit name: Sharing Information (short unit)

**Vocabulary**

Computing devices	Component	Mobile
Mobile	Chat	Upload
Online sharing	Wireless	Cache
Multimedia effects	IP address/TCP	ZIP
Collaboration	Bandwidth	Responsibility
Function	Webpages	Hub
Computing devices	Physical	
Internet components	System network	

**Big idea: Develop understanding of computer systems and how information is transferred between systems and devices.**

In this unit, children will develop their understanding of computer systems and how information is transferred between systems and devices. Children will also take part in a collaborative online project to develop their skills in working together online.

**Progression of skills :**

Understand why and when computers are used.

Shows an awareness of tasks best completed by humans or computers.

Understands the main functions of the operating system.

Knows the difference between physical, wireless and mobile networks.

Understands the potential of information technology for collaboration when computers are networked.

**Prior learning:**

Each year group has a Computing Systems and Networks unit.

Year 1 Technology Around us and Year 2 Information Technology Around Us.

**Year 3 Connecting Computers:**

In this unit, children learn about digital devices and input, processes and output. Children are introduced to computer networks.

**Year 4 The Internet:**

Here they extend their knowledge of the internet being a network of networks and how it must be protected. They learn who owns the content on websites and where they are stored.



Children can use Purple Mash 2Connect or Microsoft Notebook to collaborate. This can be a choice of task relating to other areas of learning.

NCE unit can be used as a basis for planning.

**Future learning:**

**Year 6 Communication :**

Children here will learn how information is found on the internet, how search engines work and rank the results. They will then explore different methods of communication.

**Key learning assessment statements:**

Explore how a digital system works and that they feature inputs, processes, and outputs.

Outline how computer systems link with other devices.

Identify tasks that are completed by Computing systems.

Explore how data is transferred across the internet in packets.

Children contribute together on a shared project online (opportunities for cross curricular work).

Children compare and evaluate working online and offline.

**National Curriculum links :**

- **Design**, write and debug programs that accomplish specific goals, including **controlling or simulating physical systems**; solve problems by decomposing them into smaller parts
- **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**
- Select, **use and combine a variety of software (including internet services)** 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
- Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact

Education for a Connected World links

- I can assess and justify when it is acceptable to use the work of others
- I can give examples of content that is permitted to be reused

**Some ideas for collaborative project:**

History: Researching and present work each working on an area

English: Putting an argument forward such as 'Should animals be put in zoos?'

Maths: investigation work. Each child works on an area and adds to evidence. Eg. 4 sided shapes sometimes, always or never have 4 lines of symmetry.

Science: creating testable questions

**Spiritual Development**

Computing allows children to reflect on the awe and wonder of the achievements and possibilities of ICT in a modern world. They think about the limitless opportunities that could be achieved thus promoting their sense of self and motivation. Exodus 15:11: And amazement seized them all, and they glorified God and were filled with awe, saying, "We have seen extraordinary things today."



Planning an argument about whether animals should be kept in a zoo.

