

Year 2 Computing – Autumn term

Unit of Learning: Computing systems and networks – What is a computer?

Big Question: What is a computer?

Prior learning: Pupils have looked at parts of a computer in Year 1.

At the end of this topic, pupils will know:

Line of Enquiry

National Curriculum Objectives

1. What are the parts of a computer?

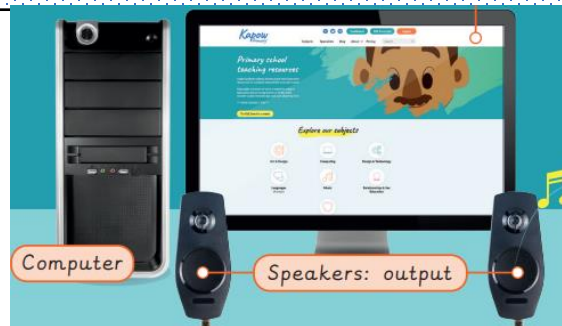
2. How is technology controlled?

3. Where can I find different types of technology ?

4. What will my invention look like and do?

5. What is the role of computers?

- Use technology purposefully to create, organise, store, manipulate and retrieve digital content.
- Recognise common uses of information technology beyond school.
- Use logical reasoning to predict the behaviour of simple programs



Battery	A cell or connected group of cells that store electrical energy to power wireless devices.
Buttons	Switches that you can press to control a device.
Computer	Electronic machine that accepts and processes information to produce an output, and then stores the results.
Desktop	A tower computer that needs a mouse, keyboard and monitor, that stays in one place.
Device	Equipment created for a certain purpose or job.
Electricity	A type of energy, that is usually invisible, that can be made or stored and used to make devices work.
Input	A way of telling the computer what you want it to do.
Invention	A new device or process which solves a problem.
Keyboard	An input device made up of buttons that create letters, numbers, and symbols, as well as perform other functions.
Laptop	A compact computer that is easy to carry and move around.
Monitor	An output device, which shows what is happening on the computer for example videos, images and text.
Mouse	A handheld device that is used to move things around on the computer screen.
Output	Information or data that is sent by the computer to an output device such as a printer or speakers.
Technology	Using scientific knowledge to help us to create new devices or tools.
Wire	A long, thin and flexible piece of metal protected by a plastic coating. Electrical wire is used to carry electricity.

As children of God we are loved, we are called, and we are inspired.



Year 2 Computing

Unit of Learning:

Computing systems and networks – IT around
US

Creating Media - Digital photography

Big Question: What is IT and how can I use it?

Prior learning: Last year, children learnt where we can find examples of technology around us.

At the end of this topic, pupils will know:

<u>Line of Enquiry</u>	<u>National Curriculum Objectives</u>
1. What is IT?	<ul style="list-style-type: none"> use technology purposefully to create, organise, store, manipulate and retrieve digital content ☑ recognise common uses of information technology beyond school ☑ use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.
2. Where can I find examples of IT in school?	
3. What can I use to take a photograph?	
4. What do the terms landscape and portrait mean?	
5. What makes a good photograph?	

E-safety:

Prior learning: Previously children have learnt about where to go for help and support when they have concerns about contact or content on the internet or other online technologies.

At the end of this topic, pupils will know:

<u>Areas covered this half-term</u>	<u>National Curriculum Objectives</u>
Rules for using technology	<ul style="list-style-type: none"> use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

<u>Vocabulary</u>	<u>Definition</u>
Information technology	the study or use of systems for storing, retrieving, and sending information
computer	a device for working with information.
Device	a piece of portable electronic equipment that can connect to the internet.
camera	an instrument used to take, or record, pictures of people and objects.
photograph,	an image or picture that has been captured on film or another material
capture	record accurately in words or pictures:
image	a visual representation of something
detail	a small part or feature
landscape	a rectangular document or image having the horizontal dimension longer than the vertical dimension
portrait	a rectangular document having the vertical dimension longer than the horizontal dimension
framing	the matter or area enclosed in such a border
subject	something represented or indicated in a work of art
compose	to form by putting together

As children of God we are loved, we are called, and we are inspired.

