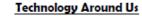
Subject: Computing	Year: 1 – Autumn 1 – Computer Systems & Networks – Technology around us.
National Curriculum objectives	
<ul> <li>Recognise common uses of information technology beyond sch</li> </ul>	ool;
<ul> <li>Use technology purposefully to create, organise, store, manipul</li> </ul>	
	nation private; identify where to go for help and support when they have concerns about content or
contact on the internet or other online technologies.	
To begin this unit, the children should have already learnt:	The learning in this unit will prepare the children to learn these things in the future:
As this is a Year 1 unit, no prior knowledge is assumed. This unit	Year 2
progresses students' knowledge and understanding of technology and	Information Technology is all around us and its responsible use improves our world in school and
how they interact with it in school. Learners will build their knowledge	beyond.
of parts of a computer and develop the basic skills needed to	,
effectively use a computer keyboard and mouse.	Year 3
	Digital devices are devices that are capable of processing and form part of a network, which is
	made of numerous devices. Information and data can be shared across networks.
	Year 4
	The internet is a network of networks which needs to be kept secure. and content can be created,
	accessed, added to and deleted.
	Year 5
	Information technology includes computers and other interconnected parts working together.
	Search engines are used to return information on the World Wide Web: these results are ranked
	based on the search engine's rules; the results from a search can also be influenced.
	Year 6
	Data is shared over the internet in packets. The internet facilitates online communication and
	collaboration: different methods are available – it is important to choose the best strategy for a
	purpose. Communication can be public or private so choices about what to share must be made.
Key Enquiry Question	The Big Idea:
What are examples of technology and how can we use them safely?	Computers are an example of technology, which can help us, but rules should be followed to stay
	safe when using them.

To achieve ARE, pupils will need to be secure in the following knowledge:					
<ul> <li>By the end of this unit, children will know:</li> <li>That technology is something that can help us;</li> <li>Examples of technology;</li> <li>That a computer is an example of technology;</li> <li>How examples of technology help us;</li> <li>That choices are made when using technology;</li> <li>Why rules are needed when using technology.</li> </ul>	Vocabulary: Technology; man-made; digital; screen; mouse; keyboard; program; click; drag; e-safety; cursor.				
<ul> <li>By the end of this unit, children will be able to do:</li> <li>To choose a piece of technology to do a job;</li> <li>To recognise that some technology can be used in different ways;</li> <li>To identify the main parts of a computer;</li> <li>To use a mouse in different ways;</li> <li>To use a keyboard to type;</li> <li>To use the keyboard to edit text.</li> </ul>	Useful Resources: Online training courses Raspberry Pi online training courses				



# COMPUTING SYSTEMS AND NETWORKS KNOWLEDGE ORGANISER

## Overview



<u>Technology</u> is something that has been made by people to help us.

-Technology is 'man-made' and not 'natural.' Examples include computers, phones, cars, bikes, and even pencils!

-Computers are a type of digital technology.

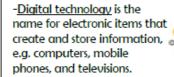
-Some of the different parts of a computer include the monitor, mouse and keyboard.

-There are a number of important rules to help us use computers <u>safely.</u>

# Technology

-Technology is the name for man-made things that help us.

-Technology is all around us, and helps to make out lives easier.



-<u>Non-digital technology</u> is the name for nonelectronic items do not create and store information.

#### Using Technology Safely

When using technology, we should:

- -Hold the device carefully and use it gently.
- -Not have food and drink around the device.
- -Only use the programs that we are supposed to be using.
- -Take turns with our partner, and stop using the device when we are being spoken to.

Sc	reen/ Monitor			
	3			
T	T			
Keyboard	Mouse			

#### Computers

# tor -<u>Desktop computers</u> need to be placed on a surface, e.g. a table or desk. <u>Laptop computers</u> are

portable – they can be moved to different places. -<u>The screen</u> (or monitor) displays what the computer is doing.

-<u>The mouse</u> lets you select and move objects (some computers have a trackpad instead).

-The keyboard lets you type letters and numbers.

-Computers can run different <u>programs</u>. Programs do different tasks on the computer. E.g. Microsoft Word, Microsoft PowerPoint and Paint.

-When we are using a program, we can save our work by pressing Ctrl + S or by clicking on this icon.

Using a Mouse Using a Keyboard 1 1 1 1 The mouse can be used to click and drag. ASDFOHJ Clicking the left button lets ZXCVBNNY? us select something. Clicking twice quickly lets us open files -Writing on a computer is called and programs. typing. We do this on a keyboard. -Clicking the right button -Holding the shift key, or pressing caps gives us options. lock, helps us to type a capital letter. -Holding the left button Delete and backspace buttons can down allows us to drag things. help us to remove typing.

Important Vocabulary										
Technology	Man-made	Digital	Screen	Mouse	Keyboard	Program	Click/ Drag	Cursor	E-Safety	

Y1