

River Bank Primary Knowledge Organiser	Year 3	Computing - Spring 2	We are network engineers
Key Vocabulary		Websites and links	
<p><u>'We are network engineers'</u></p> <p>In this unit, you will investigate how computer networks work. You will use a simulation (a computer model) and learn some simple command prompt tools (where the computer asks you for a command) for testing network connections. Networking hardware makes it possible for computers to pass data to one another, to create a computer network. These networks can be connected together to make the internet. A standard system (known as 'protocol') is used for passing data between computers. Data is first broken into small 'packets'. The packets are then passed from one router to another until they reach the recipient (the person you are sending it to).</p> <p>By the end of term you will be able to:</p> <ul style="list-style-type: none"> • understand the hardware (the physical parts or components of a computer, such as the monitor, keyboard, computer data storage, graphic card and sound card) necessary for computer networks to work • understand some features of the internet • understand some diagnostic tools for investigating network connections (an error in a computer program, computer system, or device). 		<p>Sites offering access to networking tools via the web:</p> <p>http://centralops.net/co www.ultratools.com http://network-tools.com Raspberry Pi: www.raspberrypi.org</p> <p><u>Online tutorials</u> Raspberry Pi: http://downloads.raspberrypi.org/Raspberry_Pi_Education_Manual.pdf Google Maps: www.google.com/earth/outreach/tutorials/all.html#maps</p> <p><u>Weblinks</u> The Journey Inside the internet: www.intel.com/content/www/us/en/education/k12/the-journeyinside/explore-the-curriculum/internet.html Internet history, technology and security: www.coursera.org/course/insidetheinternet</p>	
One very important thing to always remember is you should not change settings or alter files on computers unless you have permission and can undo any harm done.		Try this at home	
<p>(information from 'Rising Stars Computing')</p> <p>Remember to be SMART online: S – Stay Safe M – Don't Meet Up A – Accepting Files R – Reliable T – Tell Someone</p>		<p>Talk to your parents and explain how the internet works, using the vocabulary you have learnt in your IT lessons at school.</p> <p>Why not write up what you have learnt during this unit for your teacher- your work may be published as a blog post! You may like to illustrate it with photos and screenshots.</p>	
		<p>Remember: always use technology safely, respectfully and responsibly.</p>  	

Quiz	<u>A</u>	<u>B</u>	<u>C</u>
What is 'computer hardware'?	The physical parts of a computer- monitor, keyboard etc	Deciding how long your computer will work for	When you take a screenshot
When would you alter files on a computer?	Only when you have permission	You want to	A friend told you to
The physical parts or components of a computer are known as...?	software.	firmware.	hardware.
At River Bank Primary School we teach SMART online, what does the R stand for?	Reliable	Reorganise	Return
What is a recipient?	The person who sends something	The person who receives something	The shop person at the post office