



Medium-Term Planning



Subject: ICT

Term and Year:	Autumn 1 2021
Teacher:	Miss O'Neil
Subject:	ICT
Vocabulary that will be taught:	<ol style="list-style-type: none">1. Packets2. Routers3. Websites4. Route5. Website6. Homepage7. Storage8. Corrupted9. Server10. World Wide Web

National Curriculum Objectives:

- 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
- Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content

ICT Skills that will be taught and assessed:

- Learning what a network is and its purpose
- Identifying the key components within a network, including whether they are wired or wireless
- Recognising links between networks and the internet
- Learning how data is transferred

Focus of each lesson

'Can I...' Statement(s)

Activities/Key points

Lesson 1	<p>LO: To understand what a network is and understand our school network</p> <ul style="list-style-type: none"> • Can I explain that a network joins things together? • Can I explain the purpose of a network? • Can I include information on what a network is and why we use them? • Can I name the key parts of network? • Can I identify which components are connected? • Can I explain which connections are wired or wireless? 	<ul style="list-style-type: none"> • Explain what a network is. • Photograph parts of the network around school. • Sorting activity with network examples.
Lesson 2	<p>LO: To understand how information moves around a network and begin to recognise real world networks.</p> <ul style="list-style-type: none"> • Can I explain what a server does? • Can I suggest what a server is connected to? • Can I discuss the journey of a file? • Can I recognise real world networks? 	<ul style="list-style-type: none"> • Recap networks. • Create a set of instructions to save a file onto a server. • Answer comprehension questions.
Lesson 3	<p>LO: To understand how the Internet works and explain a website's journey</p> <ul style="list-style-type: none"> • Can I explain what the internet is? • Can I recognise wires connect countries together? • Can I suggest how everything is connected? • Can I understand that the computer I use is connected to the internet via a router? • Can I explain that computers have to locate websites? • Can I recognise a website is just a file saved on a computer? 	<ul style="list-style-type: none"> • Explain how information gets to our laptops. • Make a map of how the information gets to our laptops. • Explain the different types of cables used.
Lesson 4	<p>LO: To explore the role of routers</p> <ul style="list-style-type: none"> • Can I understand the purpose of a router? • Can I explain how a website reaches my computer? • Can I suggest which websites will have more/less jumps? 	<ul style="list-style-type: none"> • Recap networks, servers and the internet. • Time how long requests take. • Discuss URLs and how they are used.

Lesson 5	<p>LO: To understand the role of packets</p> <ul style="list-style-type: none">• Can I explain that routers connect together to send information?• Can I understand that websites are too big to send whole?• Can I recognise that each packet will take its own route?	<ul style="list-style-type: none">• Recap our learning from this half term.• Discuss packet information.• Pass the packets subtracting the time to live.
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