Northolt High School
Scheme of Learning

Committed to excellence

<table>
<tr><td>Year group: 9</td><td>Term: 1</td><td>Unit duration: 6 weeks</td><td>Number of lessons: 6</td><td colspan="3">Unit title: Wired and Wireless Networks</td></tr>
<tr><td colspan="4">Assessment outcome: To know what a network is, the hardware it is made up of and how it can benefit computer systems to be connected to a network.</td><td colspan="3">Fertile question?
How do computers communicate with one another?</td></tr>
<tr><td colspan="3">Key skills/concepts/knowledge that students should cover</td><td>Start RAG</td><td>End RAG</td><td colspan="2" rowspan="2">Literacy. Key vocabulary/subject terminology that students should cover

Packet
Header
Payload
Trailer
Router
Switch
Server
Client
WiFi
4G/5G
Ethernet
LAN and WAN</td></tr>
<tr><td colspan="3">What is a network - types of physical connection between computers
Packet switching - how messages are sent and received

WiFi - wireless network connections
Wired vs Wireless - benefits and drawbacks of each

Network hardware - taking the right route through a network</td><td></td><td></td></tr>
<tr><td colspan="4" rowspan="2">Stretch. Key skills/concepts/knowledge that students should cover

Wireless internet is transmitted using radio waves - a type of electromagnetic radiation. Why do we use radio waves instead of another type of light?</td><td rowspan="2"></td><td colspan="2">Suggested materials teachers could/should use

TeachICT
Computer Science Powerpoints/Worksheets</td></tr>
<tr><td colspan="2">Key home learning tasks students should complete to be set in lessons</td></tr>
</table>

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Seizing opportunity *Instilling ambition* *Realising potential*