Northolt High School
Scheme of Learning

<table>
<tr><td>Year group: 8</td><td>Term: 1</td><td>Unit duration: 6 weeks</td><td colspan="2">Number of lessons: 6</td><td>Unit title: Software - Operating Systems and Utilities</td></tr>
<tr><td colspan="3">Assessment outcome: Students will understand how operating systems and utility software control computer hardware.</td><td colspan="3">Fertile question?
How does the software running on a computer affect the computer's hardware?</td></tr>
<tr><td colspan="3">Key skills/concepts/knowledge that students should cover</td><td>Start RAG</td><td>End RAG</td><td rowspan="2">Literacy. Key vocabulary/subject terminology that students should cover

Operating System - OS
Memory allocation
BIOS
Firmware
Drivers
Compression
Defragmentation
Firewall
Anti-virus</td></tr>
<tr><td colspan="3">The difference between hardware and software
What is an operating system?
What is utility software?
What software controls the hardware of a computer?
How are system resources shared between the software?

How can the operating system and other system software affect the performance of a computer?</td><td></td><td></td></tr>
<tr><td colspan="4">Stretch. Key skills/concepts/knowledge that students should cover

When running many different programs at once, how does an operating system keep the computer running smoothly? Consider how the operating system gives software access to hardware resources.</td><td></td><td>Suggested materials teachers could/should use

TeachICT
Computer Science Powerpoints/Worksheets

Key home learning tasks students should complete
To be set in lessons</td></tr>
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