<table>
<tr><td>Year group: 11</td><td>Term: Summer 1</td><td>Unit duration: 6 weeks</td><td colspan="2">Number of lessons: 6</td><td>Unit title: Sorting and Searching Algorithms</td></tr>
<tr><td colspan="4">Assessment outcome: To be able to conduct a Binary and Linear search as well as Bubble, Insertion and Merge sorts.</td><td colspan="2">Fertile question? How would you identify an algorithm if given the code for it</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

Algorithmns
Insertion
Merge
Sort
Bubble
Binary
Linear
Search
Standard
Data set</td></tr>
<tr><td colspan="3">• To understand the standard sort algorithms:
  • Bubble sort
  • Insertion sort
  • Merge sort
• Be able to apply each algorithm to a data set

• Understand and use different types of search
  • Binary search
  • Linear search</td><td></td><td></td></tr>
<tr><td colspan="4" rowspan="2">Stretch. Key skills/concepts/knowledge that students should cover

Explain a situation where Binary search is more suitable than Linear search and vice versa.</td><td rowspan="2"></td><td>Suggested materials teachers could/should use

TeachICT, Isacc Computing, A'level Computing textbook
Computer Science Powerpoints/Worksheets</td></tr>
<tr><td>Key home learning tasks students should complete

Worksheets</td></tr>
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