

## GCSE Computer Science – Half Termly Schedule

Students follow the EdExcel GCSE (9-1) Computer Science course.

Reference numbers next to the topics covered refer to the relevant section of the [syllabus](#).

<b>Year Group</b>	<b>Term</b>	<b>Topic and Content</b>
10	Autumn 1	<b>Topic 1: Problem solving</b> <ul style="list-style-type: none"><li>- 1.1 Algorithms</li><li>- 1.2 Decomposition and abstraction</li></ul> <b>Topic 2: Programming</b> <ul style="list-style-type: none"><li>- 2.1 Develop code</li><li>- 2.2 Constructs</li></ul>
	Autumn 2	<b>Topic 2: Programming</b> <ul style="list-style-type: none"><li>- 2.3 Data types and Structures</li><li>- 2.4 Input/output</li><li>- 2.5 Operators</li><li>- 2.6 Subprograms</li></ul>
	Spring 1	<b>Topic 3: Data</b> <ul style="list-style-type: none"><li>- 3.1 Binary</li><li>- 3.2 Data representation</li><li>- 3.3 Data storage and compression</li></ul>

	Spring 2	<b>Topic 3: Data</b> <ul style="list-style-type: none"><li>- 3.4 Encryption</li><li>- 3.5 Databases</li></ul>
	Summer 1	<b>Topic 4: Computers</b> <ul style="list-style-type: none"><li>- 4.1 Machines and computational modelling</li><li>- 4.2 Hardware</li><li>- 4.3 Logic</li></ul>
	Summer 2	<b>Topic 4: Computers</b> <ul style="list-style-type: none"><li>- 4.4 Software</li><li>- 4.5 Programming languages</li></ul>

11	Autumn 1	<b>Topic 5: Communication and the internet</b> <ul style="list-style-type: none"> <li>- 5.1 Networks</li> <li>- 5.2 Network security</li> </ul>
	Autumn 2	<b>Topic 5: Communication and the internet</b> <ul style="list-style-type: none"> <li>- 5.3 The internet and the world wide web</li> </ul>
	Spring 1	<b>Topic 6: The bigger picture</b> <ul style="list-style-type: none"> <li>- 6.1 Emerging trends, issues and impact</li> </ul>
	Spring 2	<b>Non-Exam Assessment</b>