

## Year 8 Computing

In Year 8, the curriculum covers both IT/digital literacy and computing topics. The theory elements of the topic are taught and students demonstrate their knowledge through the production of an IT based product.

### Methods of deepening and securing knowledge:

<b>Interleaving</b>	Theory and practical skills are revisited throughout the year, the connection/link between topics is highlighted as appropriate.
<b>Real world examples</b>	Theory is linked to real world scenarios so that students can see their application in everyday life and the workplace.
<b>Knowledge organisers</b>	These are used in all units of work to support the understanding and application of key words and knowledge/concepts.

	Theme 1	Theme 2
<b>Topic(s)</b>	<p><b>May the Force be with you</b></p> <p>Databases and data representation. Tables, queries, reports using database software. Number systems.</p>	<p><b>Inspiration</b></p> <p>What is an algorithm? Creating and interpreting algorithms and flowcharts using sequencing, selection and iteration. Programming using Scratch and Python.</p>
<b>Assessment</b>	End of unit practical test.	Ongoing teacher assessment.
<b>CEIAG</b> ( <i>Careers that are linked to that topic</i> )	Learning about the world of work with the introduction of IT based systems.	The role of a computer programmer, jobs that require programming skills..

	Theme 3	Theme 4
Topic(s)	<p><b>Changes</b></p> <p>Communications and networks. Local/Wide and personal area networks. Benefits of networks. Network hardware and topologies. Network connectivity. Computer threats and security.</p>	<p><b>Innovation and Enterprise</b></p> <p>Multi skills project. The design and creation of an IT/computing product to demonstrate skills and knowledge (student-led project).</p>
Assessment	<p>Ongoing teacher assessment. Final keywords task.</p>	<p>Ongoing and final teacher assessment of final portfolio.</p>
CEIAG ( <i>Careers that are linked to that topic</i> )	<p>Learning about the world of work with the introduction of internet/cloud-based systems.</p>	<p>Working with a "client" to design and build a portfolio of products to meet specific needs.</p>

#### Independent Study

In Year 7 independent study is designed to extend the learning in the classroom and can include looking at key concepts and how they apply in the home/everyday life. Research tasks are set to gather information to be used in further learning in the classroom.