

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:

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

	Theme 1	Theme 2
Topic(s)	May the Force be with you Databases and data representation. Tables, queries, reports using database software. Number systems.	Inspiration What is an algorithm? Creating and interpreting algorithms and flowcharts using sequencing, selection and iteration. Programming using Scratch and Python.
Assessment	End of unit practical test.	Ongoing teacher assessment.
CEIAG (<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>Changes</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>Innovation and Enterprise</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.