

ICT - SOW Long term plans by Year group

½ Terms	Year group	Topic	Skills taught plus links to spiritual, moral, social and cultural development
Autumn 1st ½ Term	Y8	<p>8.1 – Video design</p> <p>In this unit, students will undertake a creative project to analyse, plan, shoot and edit a short advertisement for TV, a short movie on a topic such as Cyber Crime or a short film trailer.</p>	<p>Design creative projects that include using and combining multiple applications eg video editing, web design and sound manipulation.</p> <p>Create, re-use, revise digital artefacts for a given audience with attention to trustworthiness, design and usability.</p> <p>Spiritual, Moral, Social And Cultural Development Links: SP/UICL – see key below C/EURD – see key below M/RRWA – see key below</p>
Autumn 2nd ½ Term	Y8	<p>8.2 – Kodu games design</p> <p>The unit is an introduction to the fundamentals of computer programming and games design via Kodu, a Microsoft platform for children. Students will be introduced to the idea of computer programs requiring a precise series of statements and will understand how to build a world and program characters and objects.</p>	<p>Design and evaluate computational abstractions using a programming language, in this case Kodu (Microsoft)</p> <p>Spiritual, Moral, Social And Cultural Development Links: SP/UICL – see key below</p>
Spring 1st ½ Term	Y8	<p>8.3 – Flash animation</p> <p>Students will learn how animations are created and use a variety of drawing and animation techniques including tweening and motion paths in order to plan, create and export a multi-layered animation into a format that can be played as a standalone file or as a moving image within a web page. The unit includes</p>	<p>Design creative projects that include using and combining multiple applications eg video editing, websign and sound manipulation.</p> <p>Create, re-use, revise digital artefacts for a given audience with attention to trustworthiness, design and usability.</p> <p>Spiritual, Moral, Social And Cultural Development</p>

		theory on frame rates and the effect on file size.	Links: SP/UICL – see key below
Spring 2nd ½ Term	Y8	8.4 – Web graphics Students will create animated buttons, a banner and other web graphics for a specific target audience.	Design techniques, and optimisation of the graphics for the web. Create, re-use, revise digital artefacts for a given audience with attention to trustworthiness, design and usability. Spiritual, Moral, Social And Cultural Development Links: SP/UICL – see key below
Summer 1st ½ Term	Y8	8.5 – Databases Students will create, edit and query a database and understand why we use databases in the real world and what the practical applications are.	Identify why we use databases to store data.
Summer 2nd ½ Term	Y8	8.6 – Introduction to Python This is an introduction to Python, a powerful but easy-to-use high-level programming language. The focus will be on getting students to understand the process of developing programs, the importance of writing correct syntax, being able to formulate algorithms for simple programs and debugging their programs.	Understand algorithms for example ones for sorting and searching. Spiritual, Moral, Social And Cultural Development Links: SP/UICL – see key below

Aspect	Area covered	Code
Cultural	Exploring, understanding and respecting diversity	C/EURD
	Participating and responding to cultural activities	C/PRCA
	Understanding and appreciating personal influences	C/UAPI
Moral	Developing and expressing personal views or values	M/DEPV
	Investigating moral values and ethical issues	M/IMVEI
	Recognising right and wrong and applying it	M/MCMV
	Developing personal qualities and using social skills	M/RRWA
	Understanding the consequence of actions	M/UCA
Social	Developing personal qualities and using social skills	SC/PQSS
	Participating, cooperating and resolving conflicts	SC/PCRC
	Understanding how communities and societies function	SC/UCSF
Spiritual	Developing personal values and beliefs	SP/DPVB
	Experiencing fascination, awe and wonder	SP/EFAW
	Exploring the values and beliefs of others	SP/EVBO
	Understanding human feelings and emotions	SP/UHFE
	Using imagination and creativity in learning	SP/UICL