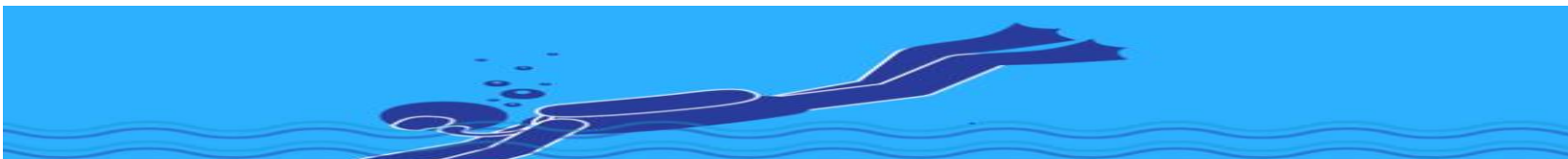# Curriculum plan: Computing

CONNECTED

INTENT:

"I do not fear computers, I fear the lack of them"

Isaac Asimov

The use and understanding of computers gives learners the opportunity to develop sector-specific knowledge and skills in a practical learning environment. Can you solve problems? Are you a computational thinker? Do you have a scientific and mathematical way of thinking?

Computers are changing every part of our lives at an ever-increasing rate-why not drive the future?

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Half term points

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
	Introduction to E-safety	Spreadsheet modelling	Scratch programming	Word processing	Digital graphics	Project
7	**Learning to include:** • dangers or using email and the internet • mobile phone technology • flaming, cyberstalking and masquerading	**Learning to include:** • label parts spreadsheets • use of simple formulas and functions • create suitable and meaningful graphs/charts • if statements and conditional	**Learning to include:** • understand scratch interface • sequence, selection and iteration • use of variables • create a program using key constructs	**Learning to include:** • basic Word formatting techniques • advanced word formatting techniques • letter writing mail merge technique and apply to a letter	**Learning to include:** • theory into vector and bitmap images • theory into compression and resolution • identify different image formats • photo editing skills using	**Learning to include:** • a mini project that combines unit of work from year 7

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Half term points

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
	Social media & cyberbullying	**Computer systems**	**Web design & HTML**	**Databases**	**2D animation**	**Python programming**
8	**Learning to include:** • what cyberbullying is and the different types • various types of social networks explaining the dangers of each • what grooming is and how it can occur	**Learning to include:** • input, output devices and their uses • storage devices • components of a PC introduction to binary	**Learning to include:** • purpose and component features of websites • planning of different website scenarios • learn the basic constructs of a HTML web page • build a mini website using Adobe Dreamweaver	**Learning to include:** • different features of a database and uses • creating a database and import data into the database • creating queries based on a set scenario • create a data input form	**Learning to include:** • describe the different types of animation techniques • storyboard technique to plan out animation • create an animation 2D software	**Learning to include:** • what Python programming is • create a basic program, which will display a message to a user • create a program, which stores information using variables • create a program, which uses both sequence and