Curriculum Overview – Year 7 Computing

Sequencing of topics	What knowledge will students develop? (Including key terminology)	What skills will students develop? (Including literacy & numeracy)	Assessment opportunities	Homework opportunities	Personal development (Ursuline Values, Catholic Social Teaching, Cultural Capital, Cross- curricular, Careers)	Curriculum links (KS3 Computing PoS)				
	Autumn Term 1									
Year 7 Collaborating online respectfully	 How to be respectful when communicating online. What is meant by a digital footprint. What is cyberbullying Which scenarios constitute inappropriate content or contact. How to find copyright free images to use in our own digital products. Plan and create a presentation on cyberbullying 	 What to do if you or a friend are affected by cyberbullying. how to report any concerns about what we experience online. How to use presentation software before designing our own presentation 	 Year 7 Baseline Assessment Mid-topic assessment End of topic assessment Use of questioning in class 	Questions set on Satchel One once a week	Grateful for the gifts that modern technology has given to us. Acting with truth and integrity when using social media Links to PHSE	KS3 PoS understand a range of ways to use technology safely, respectfully, responsibly and securely, including protecting their online identity and privacy; recognise inappropriate content, contact and conduct and know how to report concerns				
		Autumi	n Term 2							
Gaining Support for a cause	 Identify the key features of a word processor Understanding copyright issues when choosing images. How to critically evaluate information online. Conducting and documenting research on causes Avoiding Plagiarism Acknowledging copyright 	 Practice skills by looking at a pre-made document that is poorly formatted and use tools to format the document Utilising features of a word processor. Equipping students with techniques to help identify unreliable sources of information 	 Mid-topic assessment End of topic assessment Use of questioning in class 	Questions set on Satchel One once a week	Leading others in the pursuit of justice by raising funds for a good cause Links to Mathematics	undertake creative projects that involve selecting, using, and combining multiple applications, collecting and analysing data and meeting the needs of known users				

		 how to document and credit sources to avoid plagiarism How to create a blog 							
Spring Term 1									
Programming in Scratch	 Sequencing. how computers need precise instructions to execute. Variables Storing numeric and text data Selection: The use of IF statements to control the flow of instructions Logical and comparison operators. AND OR NOT Count controlled iteration Use of the REPEAT Command Problem solving. in Scratch 	 Students work on sequencing their first program Investigating and modifying code in Scratch. Practise using different expressions to decode Debugging by tracing the value of a variable Putting together all of the skills that we have developed to develop a Scratch game 	 Mid-topic assessment End of topic assessment Use of questioning in class 	Questions set on Satchel One once a week	Listening and attentive to the technical information shared in class Courageous and resilient when overcoming problems.	use two or more programming languages, at least one of which is textual, to solve a variety of computational problems;			
		Spring	Term 2						
Programming in Scratch - advanced	 Subroutines: subprograms within Scratch Condition-controlled loops: predict, run, investigate, and modify code for a Scratch the cat flying game. 3 Types of Loops all of the types of loops that you can use in Scratch. The use of lists in Scratch Translate this! (Part 1) In this lesson, we will start creating a translation quiz in Scratch using the skills that have been covered so far in this unit. 6. Translate this! Part 2 	 How to create a dance battle game by decomposing dance moves and creating subroutines for each move. How to evaluate which loop to choose for each problem that we want to solve. How to create and manipulate lists. Over 2 lessons students create and complete a translation quiz in Scratch. 	 Mid-topic assessment End of topic assessment Use of questioning in class 	Questions set on Satchel One once a week	Listening and attentive to the technical information shared in class Courageous and resilient when overcoming problems.	make appropriate use of data structures [for example, lists, tables or arrays]; design and develop modular programs that use procedures or functions			
Summer Term 1									

Data Modelling	 Getting to know a spreadsheet Quick calculations using autofill Data collection using spreadsheets More spreadsheet formulae: SUM MAX MIN How to use functions to analyse data in a spreadsheet: COUNTIF AVERAGE IF Using conditional formatting to change the appearance of cells according to rules End of Unit Assessment 	 Basic spreadsheet navigation basic formulas and cell references. how to automatically create charts from data how to use: SUM, MAX, MIN, and COUNT How to use COUNTIF, AVERAGE, and IF How to use conditional formatting 	 Mid-topic assessment End of topic assessment Use of questioning in class 	Questions set on Satchel One once a week	Listening and attentive to the technical information shared in class Courageous and resilient when overcoming problems. Links to Mathematics and Science	Design, use and evaluate computational abstractions that model the state and behaviour of real- world problems
		Summe	r Term 2			
Summer Term project	Sharing exploring some common Scratch practices that we are already familiar with (sharing, 'seeing inside' projects, and 'remixing'), and will reflect upon the implications of these practices Students create and share a Scratch presentation of their own design with other students.	 Revisit and reinforce skills developed earlier in the year in Scratch Presenting skills as students present their game to an audience 	 Mid-topic assessment End of year assessment Use of questioning in class 	Questions set on Satchel One once a week	Discerning and Joyful Students share their enjoyment by undertaking a final summer project of their own design in Scratch	undertake creative projects that involve selecting, using, and combining multiple applications, collecting and analysing data and meeting the needs of known users