

Holy Family Catholic High School

Year 7 Subject: Computing

Subject Leader J Wadsworth

Curriculum and Assessment Progression Map 2021-2022

Key Learning Constructs to be developed	Scheme of Learning	Scheme of Learning	Scheme of Learning
over the academic year. – Core Knowledge	Autumn Term	Spring Term	Summer Term
-	Part 1	Part 3	Part 5
The aim of the ICT department at Carlton Holy			
Family is to equip students with the knowledge,	E-Safety	Fireworks / Photoshop	Binary Code
understanding and skills to be able to make the	Logging on/school policies	, '	,
most of new technologies across all aspects of	To learn to manage files in File Explorer	Introduction to software and tools	State why all data is represented in binary in a
their learning.	To understand the importance of backup	Editing of image within a scenario (Chav Animals)	computer
3	Learn about the possible dangers of social	Makes judgements about digital content when	Understand that a particular bit pattern may
We have identified three key areas and have	networking sites	evaluating and repurposing it for a given audience.	represent, for example, an instruction to do
designed a curriculum which offers our students	Cyberbullying	Recognises the audience when designing and	something, a letter, a number or a tiny piece of a
the opportunity to experience each;	Learn how to respond to threats on the Internet	creating digital content.	graphical image
and opportunity to expensive duein,	Learn how to keep your identity secure	di datang angitan dantanta	Define a Bit, Byte, Kb, Mb and Gb
* ICT - Equipping students with skills in using	Learn how to create a secure, memorable		Convert integers to binary numbers
software productively.	password		Convert binary numbers to integers
Solution production,	Learn how to protect your identity online	Part 4	Look up from a table the bit pattern for a given
* Digital literacy - Application of skills in a range of	Learn how to avoid being a victim of an email	1 4.0 1	character
real-world contexts.	scam	Excel	State how many different characters can be
Total World Contoxion			represented using 8 bits
* Computing - The ability to design algorithms and	Part 2	Introduce basics of Excel, e.g. terminology - cell,	Give examples of alphanumeric characters and
computing code to provide solutions.		column, row, sheet tabs, etc.	special symbols that can be represented in ASCII
compacing code to provide solutions.	Unifrog Introduction (2 Lessons)	Explain that Excel can be used for computer	Show that a bit pattern can represent either a
		modelling.	character or a decimal number
	Scratch	Make link between rules and formulae.	Character of a decimal named
	Scratch	Explore the effects of changing input data.	Wick Editor
	Understand that Scratch is a programming	Students can create models based on	Wick Editor
	environment that allows you to create games,	Chav Gang Resources.	Introduction to online animation
	animations and other simulations	Students can add formulae to their model.	The oddedon to online drinnadon
	Create a sprite and write code to make it move	Students can make predictions about the	
	and bounce	consequences of their decisions.	
	Understand the purpose of repeat loops and	To be able to create charts in Excel from inputted	Part 6
	procedures ("broadcasts")	data.	
	Use a broadcast in your own Scratch program	To be able to use chart option features to format	Multi-software project
	Learn how to adjust x and y coordinates to control	and alter the appearance of a chart/graph.	Trait software project
	the position of a sprite	To be aware of how a graph can be used to	
	Learn how to make a sprite jump	investigate the findings of a model.	
	Learn how to make a sprite jump	investigate the infamigs of a model.	
	Understand the purpose of testing		
	Understand what makes a specific and measurable		
	test		
Hinterland Knowledge	How are computers used in the real world?	Business knowledge	Green on black
	Experience of cyber attack	Industry jargon (Photoshop etc.)	Is coding fun?

Assessment: -Formative Techniques -Summative Pieces	Throughout the year there will be assessments relat feedback on work produced in the lesson (i.e. leaflet	ed to the current topics. Assessments will include Quiz t or Scratch game).	zes based on topic material and also formative
Key Vocabulary	Programming Cyberbullying Hacking Sprite	Image editing PNG Tools Formula Cell Reference Modelling	Binary Ascii Bit Language
Key Skills	Students use software under the control of the teacher to create, store and edit digital content using appropriate file and folder names. Understands that people interact with Shares their experiences of technology in school and beyond the classroom. Talks about their work and makes improvements to solutions based on feedback received	Obtains content from the World Wide Web using a web browser. Understands the importance of communicating safely and respectfully online, and the need for keeping personal information private. Knows what to do when concerned about content or being contacted.	Shares their use of technology in school. Knows common uses of information technology beyond the classroom. Talks about their work and makes changes to improve it. Uses technology with increasing independence to purposefully organise digital content. Uses a variety of software to manipulate and present digital content: data and information.
Opportunities Outside the taught Curriculum.	Advent of Code Hour of Code	Cipher Challenge Technovation Challenge	Alan Turing Cryptography competition Matrix Challenge