

St. Mary's Catholic High School (2023-2024)								
COMPUTING YEAR 1 LONG TERM PLAN with CURRICULUM STANDARDS								
YEAR 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	YR1/1(1)	YR1/2(1)	YR1/3(1)	YR1 /4(1)	YR1 /5(1)	YR1 /6(1)	YR1 /7(1)	YR1 /8(1)
	WHAT DIGITAL TECHNOLOGY DO WE USE ?							USING APPS AND SOFTWARE SAFELY
	What is digital technology ?	How to draw pictures with a computer?	Sorting digital technology	Introduction to MS Paint- Paint tools	Drawing shapes in MS Paint	Drawing pictures using brushes and pens	Setting background ,Lines, Saving and loading work	Multi-role devices
Term 1	YR1 /9(1)	YR1 /10(1)	YR1 /11(1)	YR1 /12(1)	YR1 /13(1)	YR /14(1)	YR1 /15(1)	YR1 /16(1)
	USING APPS AND SOFTWARE SAFELY		MY ANIMATION PROJECT				EXPLORING ALGORITHMS	
	Recording a video about multi role devices	Staying safe online , Using apps in positive ways	Introduction to Scratch Programming	Create a simple program	Animation in Scratch - Moving a sprite	Setting a background	Introduction to algorithms	Exploring algorithms
YEAR 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	YR1/17(1)	YR1/18(1)	YR1/19(1)	YR1 /20(1)	YR1 /21(1)	YR1 /22(1)	YR1 /23(1)	Yr1 /24(1)
	EXPLORING ALGORITHMS		WORD PROCESSING					
	Generating algorithms -Real life examples	Debugging an algorithm	Introduction to Word Pocessing	Keyboard skills - Entering text	Formatting - Font size and Underline	Formatting - Bold and Italics	Using bullet points	Typing a poem , Making a storyboard
Term 2	YR1 /25(1)	YR1 /26(1)	YR1 /27(1)	YR1 /28(1)	YR1/29(1)	YR1/30(1)	YR1/31(1)	YR1/32(1)
	INTRODUCING PROGRAMMING							DIGITAL SAFETY
	Introducing Programming	Mapping a Bee-Bot - Following directions using algorithms	Simple coding	Making , debugging and following algorithms	Introducing Turtle LOGO - Move a turtle	Simple programs to draw shapes in Turtle LOGO	Simple programs to write letters in Turtle LOGO	Online and offline world
COMPUTING YEAR 2 LONG TERM PLAN with CURRICULUM STANDARDS								
YEAR 2	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	YR2 / 1(1)	YR2 / 2(1)	YR2 / 3(1)	YR2 / 4(1)	YR2 / 5(1)	YR2 / 6(1)	YR2 / 7(1)	YR2 / 8(1)
	ONLINE SERVICES					DIGITAL CREATIVITY		
	Online and offline shopping	Finding , saving , cropping and editing digital pictures	Digital footprint and online safety motto	Creating a poster using a software	Designing a poster about onlie safety	What's a green screen and its applications ?	Using a storyboard to plan your video	Writing a script and preparing background
Term 1	YR2 /9(1)	YR2 /10(1)	YR2 /11(1)	YR2 /12(1)	YR2 /13(1)	YR2 /14(1)	YR2 /15(1)	YR2 /16(1)
	DIGITAL CREATIVITY		ORGANISING AND PRESENTING				SCREEN PROGRAMMING	
	Creating a green screen video	What is a Powerpoint presentation?	Saving and opening a presentation	Features of a presentation report	Creating a mini presentation	Formatting your presentation	What makes a good algorithm ?	Introducing Scratch Programming
YEAR 2	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8

Term 2	YR2 /17(1)	YR2 /18(1)	YR2 /19(1)	YR2 /20(1)	YR2 /21(1)	YR2 /22(1)	YR2 /23(1)	YR2 /24(1)
	SCREEN PROGRAMMING					TURTLE WORLD		
	Programming challenges	Backwards programming - Debugging	How to add characters?	Planning a project using a storyboard	Creating a program	What is floor programming?	How to use floor turtle?Designing a map	How to map floor turtle around a map or in an obstacle?
Term 2	YR2 /25(1)	YR2 /26(1)	YR2 /27(1)	YR2 /28(1)	YR2 /29(1)	YR2 /30(1)	YR2/31(1)	YR2/32(1)
	TURTLE WORLD				NETWORKS			
	Programming a turtle	Plotting a journey with turtle	Creating words using routes	Planning the best route - Using a turtle	What is a network?Using software to draw a network	How do mobile phones work?What is a satellite network?	Understanding satellite networks	Making and presenting a model of network and adding labels
COMPUTING YEAR 3 LONG TERM PLAN with CURRICULUM STANDARDS								
YEAR 3	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	YR3/1(1)	YR3/2(1)	YR3/3(1)	YR3/4(1)	YR3/5(1)	YR3/6(1)	YR3/7(1)	YR3/8(1)
	THE WORLD WIDE WEB					PODCASTS		
	What is the world wide web?Using a search engine	Taking notes from world wide web	Formatting text	Non-chronological report making	Presentation skills	What is a podcast?	Recording a podcast jingle	Planning and recording an interview
Term 1	YR3/9(1)	YR3/10(1)	YR3/11(1)	YR3/12(1)	YR3/13(1)	YR3/14(1)	YR3/15(1)	YR3/16(1)
	PODCASTS	KEEPING MYSELF SAFE					ALGORITHMS AND PROGRAMMING - PART 1	
	Planning and recording a news report podcast	Keeping a device diary	Creating a document about online safety	Being safe and responsible online	Introduction to comics	Making a comic about being kind - Using MS word	Reviewing algorithms	Scratch introduction
YEAR 3	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	YR3/17(1)	YR3/18(1)	YR3/19(1)	YR3/20(1)	YR3/21(1)	YR3/22(1)	YR3/23(1)	YR3/24(1)
	ALGORITHMS AND PROGRAMMING -PART 1					ALGORITHMS AND PROGRAMMING - PART 2		
	Using algorithms	Programming a sprite	Using keyboard input	Planning and making your maze game	Playtestingyour maze game	Creating and drawing 2D shapes algorithms	Creating custom blocks in Scratch	Sequencing of instructions
Term 2	YR3/25(1)	YR3/26(1)	YR3/27(1)	YR3/28(1)	YR3/29(1)	YR3/30(1)	YR3/31(1)	YR3/32(1)
	ALGORITHMS AND PROGRAMMING -PART 2			MANAGING MY DIGITAL WORLD				
	Design a turtle program using scratch	Debugging a program using Scratch	Creating repeating algorithms using 2D shapes	Importance of files and folders	Managing files and folders	Introduction to online and offline storage	Keeping your data safe	Creating a digital diagram
COMPUTING YEAR 4 LONG TERM PLAN with CURRICULUM STANDARDS								
YEAR 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	YR4/1(1)	YR4/2(1)	YR4/3(1)	YR4/4(1)	YR4/5(1)	YR4/6(1)	YR4/7(1)	YR4/8(1)
	ONLINE SAFETY						SEARCHING AND COMPARING	
	Explaining e-safety	What is cyberbullying?Explore what cvberbullvina looks like	Creating a green screen video about cyberbullying	Cropping and merging scenes on your green screen annlication	Planning a recording script , Designing the backdrop for green screen video	Recording a green screen video	Reliability of online source	Creating and editing a table in MS Word

		cyberbullying looks like		application	for green screen video			
Term 1	YR4/9(1)	YR4/10(1)	YR4/11(1)	YR4/12(1)	YR4/13(1)	YR4/14(1)	YR4 /15(1)	YR4/16(1)
	SEARCHING AND COMPARING			DESKTOP PUBLISHING				
	Using more complex search techniques	Planning a research project using search engine	Presenting your research	Recognising the features of a news article	Using textboxes ,Creating and formatting	Using appropriate images in news article	Inserting and manipulating images and shapes ,Planning a news article	Adding layers to and grouping objects , Drafting and creating a news article
YEAR 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	YR4 /17(1)	YR4/18(1)	YR4/19(1)	YR4/20(1)	YR4/21(1)	YR4/22(1)	YR4/23(1)	YR4/24(1)
	PROGRAMMING (PART-1)					GRAPHICS MANIPULATION AND COPYRIGHT		
	Understanding what an algorithm is , Use sequencing to create accurate algorithms	Writing programs following a set of rules ,predicting the outcome of a program	Understanding repetition in an algorithm , Repetitions in Scratch	Recognising and using nested loops within an algorithm	Creating your own flower patterns	Understanding digital images ,Creating pixel artwork , Graphic file formats	Formatting an image,Searching an image	What are filters?What is a copyright?
Term 2	YR4/25(1)	YR4/26(1)	YR4/27(1)	YR4/28(1)	YR4/29(1)	YR4/30(1)	YR4/31(1)	YR4/32(1)
	GRAPHICS MANIPULATION		PROGRAMMING (PART-2)					
	Designing and creating a magazine cover	Understanding and using conditional actions in Scratch	Using conditional switches in Scratch	Conditions that stop a repeated action	Creating a simple game in Scratch	Using conditional selection , Conditional loops , Collision detection in game	Planning your scratch game	Creating your maze game
COMPUTING YEAR 5 LONG TERM PLAN with CURRICULUM STANDARDS								
YEAR 5	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	YR5/1(1)	YR5/2(1)	YR5)/3(1)	YR5/4(1)	YR5/5(1)	YR5/6(1)	YR5/7(1)	YR5/8(1)
	STOP MOTION ANIMATION AND GREEN SCREEN			PROGRAMMING (PART 1)				NETWORKS AND THE INTERNET
	What makes a good animation? Researching well known animators/Planning your animation	Storyboarding your animation Getting your backgrounds ready/ Collecting and making your characters and props	Editing your animation and adding sound/Creating an invitation to your screening	Understanding IF and THEN conditional statements/Using conditions to start an action in scratch/Using 'IF... THEN... ELSE...' blocks in scratch	Using nested conditions/Breaking down a project	Creating a game (Part 1) Creating a game (Part 2)	Creating a game (Part 3) /Writing instructions for your game	What are physical networks? Major developments in communication
Term 1	YR5/9(1)	YR5/10(1)	YR5/11(1)	YR5/12(1)	YR5/13(1)	YR5/14(1)	YR5/15(1)	YR5/16(1)
	NETWORKS AND THE INTERNET		ONLINE SECURITY			PROGRAMMING (PART 1)		
	Finding out about networks/Making a model network/Service provided by the internet	How do search engine works? Using an advanced search method	Criminal uses of the internet/Phishing scams/How to spot a fake website?	Keeping secure/Choosing good password What is biometric security?	Online security report/Presenting your report about online security/Creating an advert	Recapping conditional statements and loops	Modifying and user testing algorithms	Developing your algorithm into code
YEAR 5	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	YR5/17(1)	YR5/18(1)	YR5/19(1)	YR5/20(1)	YR5/21(1)	YR5/22(1)	YR5/23(1)	YR5/24(1)
	PROGRAMMING (PART 2)						SPREADSHEETS	
	Planning an interactive game	Creating your game	Planning a driving game	Creating original art work	Adding complexity to your game	Completing your game and giving feedback	How to use a spreadsheet?	Formatting a spreadsheet
Term 2	YR5/25(1)	YR5/26(1)	YR5/27(1)	YR5/28(1)	YR5/29(1)	YR5/30(1)	YR5/31(1)	YR5/32(1)
	SPREADSHEETS							
	Using spreadsheet to make	Creating a chart	Recording the result of an	Analysing the data from your	Displaying the result of an	Party planner	Party planner spreadsheet	Party planner spreadsheet

	calculations	creating a chart	experiment	experiment	experiment	spreadsheet (part 1)	(part 2)	(part 3)
COMPUTING YEAR 6 LONG TERM PLAN with CURRICULUM STANDARDS								
YEAR 6	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	YR6/1(2)	YR6/2(2)	YR6/3(2)	YR6/4(2)	YR6/5(2)	YR6/6(2)	YR6/7(2)	YR6/8(2)
	DATABASES				PROGRAMMING (PART 1)			
	Looking at ways to store information/Creating a data table and running basic queries	Using spreadsheet software to work with a single table database/Investigating the use of databases in school	Investigating the use if databases outside school/Investigating database management systems	Searching online databases/Carrying out an online research project	Introduction to writing algorithms/Creating algorithm using loops	programming a solution to a problem that contains loops (part 1 & 2)/Creating a 'frogger' – style game	Creating movement of game objects, including forever loops/Using if... then... in a game to add interaction	Using a variable to create a scoreboard/Alpha and beta testing a game/Completing a game and review your learning
Term 1	YR6/9(2)	YR6/10(2)	YR6/11(2)	YR6/12(2)	YR6/13(2)	YR6/14(2)	YR6/15(2)	YR6/16(2)
	NETWORKS IN SOCIETY			VIDEO EDITING				
	The impacts of technology/The impact of technology on information service/Planning a research project	Analysing your research into technology/Presenting a research-based project/A class survey on the social impact of technology	The benefits of physical social networking/Online social networking/Staying safe on the social networking sites/Presenting your code of conduct	Staging on screen/Using sound	Good use of text/Planning a short video	Planning each screen/Shooting a video	Final shooting/Video editing	Review and final edit/Safe and responsible use of videos
YEAR 6	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	YR6/17(2)	YR6/18(2)	YR6/19(2)	YR6/20(2)	YR6/21(2)	YR6/22(2)	YR6/23(2)	YR6/24(2)
	HEALTH AND SAFETY						PROGRAMMING (PART 2)	
	Main features of computer devices/Can you get an injury from using digital devices?	Planning your video about using digital devices safely/Filming and editing your video	Digital devices and the environment	The life cycle of a smartphone/Reducing e-waste	Planning a leaflet	Completing the leaflet on e-waste, presenting it and receiving feedback	Designing, testing and repurposing an algorithm	Creating an algorithm using loops
Term 2	YR6/25(2)	YR6/26(2)	YR6/27(2)	YR6/28(2)	YR6/29(2)	YR6/30(2)	YR6/31(2)	YR6/32(2)
	PROGRAMMING (PART 2)							
	Programming an algorithm that contains variables	Repurposing an algorithm	Programming a timer		writing an algorithm to draw 2d shapes	Modifying a program to create multiple shapes on screen	Drawing shapes using coordinates and repurposing your program	Using shapes to represent an object
COMPUTING YEAR 7 LONG TERM PLAN with CURRICULUM STANDARDS								
YEAR 7	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	YR7/Unit 1-L1(2)	YR7/Unit 1-L2(2)	YR7/Unit 1-L3,4 (2)	YR7/Unit 1-L5,6(2)	YR7/Unit 1-L7,9,10(2)	YR7/Unit 2-L1,6(2)	YR7/Unit 2-L2,7(2)	YR7/Unit 2 -L3,8(2)
	SAFE PRACTICE					RESPONSIBLE PRACTICE		
	The Internet and the WWW	Presentation based on projects	Creating a storyboard for presentation/ Internet research	Building a presentation/ Presentation interactivity	The importance of password/ Adapting a presentation for a new audience	Copyright/ Document Layout	Legal and illegal use of content/ Document page design	Working safely in the cloud/ Combine text and graphics
	YR7/Unit 2-L4,10 (2)	YR7/Unit 3-L1,3(2)	YR7/Unit 3-L2,4(2)	YR7/Unit 5-L1(2)	YR7/Unit 5-L3 (2)	YR7/Unit 5-L3(4)		YR7/Unit 5(2)
	RESPONSIBLE PRACTICE	CONNECTIVITY AND THE INTERNET		PROGRAMMING PART 1				
	Research a newsletter/ Distributing digital documents	Wired and wireless networks / Wired connections	Mobile internet access / Satellite communication	An introduction to programming	Using Operators	Using Arithmetic operators in Python programs		REVISION
YEAR 7	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8

Term 2	YR7/Unit 3-L6/Unit 5-L1,3(2)	YR7/Unit 3-L7/Unit 5-L4(2)	YR7/Unit 3-L9,10 (2)	YR7/Unit 5-L5(2)	YR7/Unit 4 -L1(2)	YR7/Unit 5-L2(2)	YR7/Unit 4-L3/Unit 6-L3(2)	YR7/Unit 4-L4/Unit 6-L6,7(2)
	CONNECTIVITY AND THE INTERNET / PROGRAMMING PART 1				INTERNET PROTOCOL AND BINARY / PROGRAMMING PART 1 AND 2			
	Comparing web browsers / An Introduction to programming (Recap) / Using operators (Recap)	Comparing search engines / BIDMOS	Creating well presented documents	Relational operators	Binary representation	Sorting algorithms	Converting from binary to denary / Data types and converting data	Converting from denary to binary / String concatenation
	YR7/Unit 4 -L5, 6/Unit 6-L4(2)	YR7/Unit 6-L4(2)	YR7/Unit 5-L10 (2)	YR7/Unit 6(4)		YR7/Unit 6(4)		YR7/Unit 6(2)
	INTERNET PROTOCOL AND BINARY / PROGRAMMING PART 1 AND 2				PROGRAMMING PART 1 AND 2			
	ASCII and Unicode / string methods	String methods	Subprograms	Using operators in Python programs		Various IF statement for given task(Using simple if, if...else)		Find the output for the given Python code using simple if, if...else
COMPUTING YEAR 8 LONG TERM PLAN with CURRICULUM STANDARDS								
YEAR 8	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 1	YR8/Unit 1-L1,2(2)	YR8/Unit 1-L1,2(2)	YR8/Unit 1-L3,4,5(2)	YR8/Unit 1-L6,7,8(2)	YR8/Unit 1-L9,10 (2)	YR8/Unit 2-L1,3(2)	YR8/Unit 2-L2(2)	YR8/Unit 2-L4(2)
	BINARY AND ONLINE GRAPHICS					DATA ON THE WEB		
	Vector graphics/Creating a vector graphic	Vector graphics/Creating a vector graphic	Bitmaps/Comparing binary and bitmaps/Binary and pixels	Colour depth and binary representation/Digital images properties	Binary addition	Bits, bytes and nibbles/Binary and Denary	Storage capacity	Creating a power of calculator
Term 1	YR8/Unit 2-L5(2)	YR8/Unit 2-L6(2)	YR8/Unit 2-L7,8(2)	YR8/Unit 2-L9,10(2)	YR8/Unit 3-L4(2)	YR8/Unit 3-L5(2)	YR8/Unit 3-L5(2)	YR8/Unit 3(2)
	DATA ON THE WEB				PROCESSING DATA			
	Internet Bandwidth	Creating a bandwidth calculator	Compression	Run Length Encoding	Introduction to spreadsheets	Spreadsheet formulas and functions		Spreadsheet Revision
YEAR 8	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	YR8/Unit 3-L1(2)	YR8/Unit 3-L5(2)	YR8/Unit 3-L2(2)	YR8/Unit 3-L8(2)	YR8/Unit 3-L6(2)	YR8/Unit 3-L7,10 (2)	YR8/Unit 4-L1/Unit 5-L7(2)	YR8/Unit 4-L3/Unit 5-L7(2)
	PROCESSING DATA						ANALYSING DATA	
	Computer Hardware	Spreadsheet formulas and functions	Wearable technology	Presenting data in an informative way	Spreadsheet modelling	Environmental impact of technology/Advanced spreadsheet functions	Social Media/Use of selection in algorithm	Knowledge, data and information/Use of selection in algorithm
Term 2	YR8/Unit 5-L5(2)	YR8/Unit 5-L3,4(2)	YR8/Unit 5(2)	YR8/Unit 5(2)	YR8/Unit 5(2)	YR8/Unit 5-L6(2)	YR8/Unit 5-L6(2)	YR8/Unit 5(2)
	PROGRAMMING							
	Programming errors	Sequencing and iteration algorithms	Using Arithmetic operators in Python programs	Various IF statement (Using Elif and Nested if)	Find the output using Elif and Nested if	Using Lists in Python program		Revision(Python Programming)