

St. Mary's Catholic High School (2022-2023)

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(CO1.1D)/4(1)	YR1(CO1.1A)/5(1)	YR1(PS1.1A/PS1.1B)/6(1)	YR1(PS1.1D/1C)/7(1)	YR1(PS1.1E/1F)/8(1)
	<i>INTRODUCING COMPUTERS</i>		<i>INPUT AND OUTPUT</i>		<i>DIGITAL DEVICES</i>		<i>INTRODUCING ALGORITHMS</i>	
	Introduction to Computers – What is a Computer?	Parts of a Computer System	Input Peripherals of the Computer System	Output Peripherals of the Computer System	Digital Devices	Introduction to Algorithms	Interpret Algorithms	Create Algorithms
Term 1	YR1(PD1.1A)/9(1)	YR1(PD1.1A)/10(1)	YR1(PD1.1A)/11(1)	YR1(PD1.1B)/12(1)	YR1(PD1.1C)/13(1)	YR1(SS1.1A)/14(1)	YR1(SS1.1A)/15(1)	YR1(SS1.1A)/16(1)
	<i>INTRODUCING PROGRAMMING</i>				<i>INTRODUCTION TO WORD PROCESSING</i>			
	Introduction to Scratch Programming	Create a simple program	Sprite Movement and Direction	Identify and Correct Errors	Saving a program	Introduction to Word Processing	Entering Text	Editing Text
YEAR 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	YR1(SS1.1A)/17(1)	YR1(SS1.1A)/18(1)	YR1(SS1.1A)/19(1)	YR1(IT1.1C)/20(1)	YR1(IT1.1B/1C/1D)/21(1)	YR1(IT1.1C)/22(1)	YR1(IT1.1C)/23(1)	Yr1(CO1.1B)/24(1)
	<i>KEYBOARD SKILLS</i>				<i>INTRODUCTION TO DIGITAL CONTENT</i>			
	Keyboard Skills	Keyboard Skills	Typing Poem in Word	Introduction to MS Paint	Tools in Paint	Shapes in Paint	House in paint	Digital Technology
Term 2	YR1(CO1.1B)/25(1)	YR1(CO1.1C)/26(1)	YR1(IT1.1A)/27(1)	YR1(CN1.1A)/28(1)	YR1/29(1)	YR1/30(1)	YR1/31(1)	YR1/32(1)
	<i>DIGITAL TECHNOLOGY AND SOFTWARE SAFETY</i>				<i>GRAPHICS WORLD</i>			
	Digital Technology	Software Applications	Selection of software/technology	Software Safety	Introduction to Tux Paint	Working with Paint	Working with Lines/Shapes	Working with Magic/Text

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(IT2.1C) /1(1)	YR2(IT2.1D) /2(1)	YR2(IT2.1D)/3(1)	YR2(SS2.4A)/4(1)	YR2(IT2.1C/SS2.1A)/5(1)	YR2(IT2.1E)/6(1)	YR2(SS2.1A/1D)/7(1)	YR2(SS2.1B)/8(1)
	<i>DIGITAL CREATIVITY</i>							
	Creating digital content	Tools in Paint	Shapes in Paint	Resizing and cropping digital pictures	Introduction to MS Word	Files and Folders	Formatting of Text	Spelling, Punctuation and Grammar in MS Word
Term 1	YR2(SS2.2A/SS2.3A)/9(1)	YR2(IT2.1C)/10(1)	YR2(IT2.1C)/11(1)	YR2(IT2.1D/SS2.1A)/12(1)	YR2(IT2.1D/1C/SS2.1A)/13(1)	YR2(IT2.1D)/14(1)	YR2(SS2.1B)/15(1)	YR2(PS1.1A/1B)/16(1)
	<i>ORGANIZING AND PRESENTING</i>				<i>INTRODUCTION TO ALGORITHMS</i>			
	Data types in MS Word	Introduction to PPT	New Slides in PPT	Formatting in PPT	Design and Animations in PPT	Adding Pictures in PPT	Spell Check in PPT	Introduction to Algorithms
YEAR 2	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
YR2(PS1.1A/1B)/17(1)	YR2(PD2.1A)/18(1)	YR2(PD2.1A)/19(1)	YR2(PD2.1A/PD2.1B)/20(1)	YR2(PD2.1C)/21(1)	YR2(PD2.1D)/22(1)	YR2(PD2.1B)/23(1)	YR2(CO2.1C)/24(1)	

Term 2	COMPUTATIONAL THINKING	INTRODUCTION TO SCREEN PROGRAMMING						INPUT
	Solving a real-life problem	Introduction to Scratch programming	Adding Sprites and Backdrops in Scratch	Simple program in scratch	Identify and Correct errors	Errors in scratch	Animations in Scratch	Input peripherals of the computer system
Term 2	YR2(CO2.1A/1B)/25(1)	YR2(IT2.1A)/26(1)	YR2(CN2.1A)/27(1)	YR2(CN2.1B/1C)/28(1)	YR2(CN2.1D)/29(1)	YR2(CN2.1E)/30(1)	YR2/31(1)	YR2/32(1)
	NETWORKS-LIVING IN A CONNECTED WORLS			ONLINE SERVICES			HANDLING DATA	
	Introduction to Networks	Introduction to Networks	Forms of cyber-attacks	E-Safety	E-Safety	Online Services	Using pictograms to answer questions	Creating a simple Pictogram

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(CO3.1D)/1(1)	YR3(SS3.1A)/2(1)	YR3(SS3.1A)/3(1)	YR3(SS3.1A)/4(1)	YR3(SS3.1A)/5(1)	YR3(SS3.1B)/6(1)	YR3(PS3.1A/PS3.1B)/7(1)	YR3(PS3.1A)/8(1)
	MS WORD-WORD PROCESSING SKILLS				COMPUTATIONAL THINKING			
	Introduction to MS Word	Font group in MS Word	Paragraph group in MS Word	Textboxes in MS Word	Text wrapping in MS Word	Documents in MS Word	Introductions to Algorithms	Input, process and output in Algorithms
Term 1	YR3(PS3.1C)/9(1)	YR3(PD3.1A/1B)/10(1)	YR3(PS3.1D)/11(1)	YR3(PD3.1B)/12(1)	YR3(PD3.1C/1D)/13(1)	YR3(PD3.1D)/14(1)	YR3(PD3.1D)/15(1)	YR3(PD3.1D)/16(1)
	COMPUTATIONAL THINKING			INTRODUCTION TO PROGRAMMING				
	Algorithms and their purposes	Locate and fix errors in algorithms	Decomposition	Introduction to Scratch programming	Simple programs in Scratch	Motion in Scratch	Looks in Scratch	Animations in Scratch

YEAR 3	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	YR3(CO3.1D/IT3.1A)/17(1)	YR3(SS3.2A)/18(1)	YR3(SS3.2A)/19(1)	YR3(SS3.2A)/20(1)	YR3(SS3.2A)/21(1)	YR3(SS3.2A)/22(1)	YR3(CO3.1A)/23(1)	YR3(CO3.1C)/24(1)
	PRESENTING AND ORGANIZING				CREATIVE MEDIA PROJECT PODCASTING			
	Introduction to Powerpoint Presentation	New slides in PPT	Formatting text in PPT	Buttons and Images in PPT	Animations and Transitions in PPT	Hyperlinks in PPT	Digital Devices	Selection of software
Term 2	YR3(CN3.1A/SS3.4A/4B/4C)/25	YR3(CN3.3A)/26(1)	YR3(CN3.2A)/27(1)	YR3(CN3.2B)/28(1)	YR3(IT2.1C)/29(1)	YR3(IT2.1D) /30(1)	YR3(IT2.1D)/31(1)	YR3(SS2.4A)/32(1)
	FILE MANAGEMENT		KEEPING MYSELF SAFE			GRAPHICS WORLD		
	Files and Folders	Search Engines	E-Safety	E-Safety	Introduction to Paint	Tools in Paint	Shapes in Paint	Resizing and cropping digital pictures

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(CO4.1B)/1(1)	YR4(SS4.1A)/2(1)	YR4(IT2.1D)/3(1)	YR4(SS4.1B)/4(1)	YR4(CO4.1B)/5(1)	YR4(SS4.2A)/6(1)	YR4(SS4.2A)/7(1)	YR4(SS4.2A)/8(1)
	WORD PROCESSING							
	Introduction to Paint	Shapes in Paint	Tools in Paint	Edit images	Word Processor	Font in MS Word	Paragraph in MS Word	Tables in MS Word

Term 1	YR4(PS4.1A/1B/IC)/9(1)	YR4(PS4.1A)/10(1)	YR4(PS4.1D)/11(1)	YR4(PS4.1E)/12(1)	YR4(PS6.1C)/13(1)	YR4(PD4.1B/1D)/14(1)	YR4(PD4.1B)/15(1)	YR4(PD4.1A)/16(1)
	COMPUTATIONAL THINKING				INTRODUCING PROGRAMMING			
	Introduction to Algorithms	Input, process and Output	Identify and Correct errors	Decomposition	Interpet algorithms using flowcharts	Introduction to Scratch Programming	Programs in scratch	Error debugging
YEAR 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	YR4(PD4.1C)/17(1)	YR4(PD4.1E)/18(1)	YR4(IT4.1A)/19(1)	YR4(SS3.2A)/20(1)	YR4(SS3.2A)/21(1)	YR4(SS3.2A)/22(1)	YR4(SS3.2A)/23(1)	YR4(SS3.2A)/24(1)
	INTRODUCING PROGRAMMING				PRESENTATION SKILLS			
	Programs using constructs	Programs using constructs	Introduction to Powerpoint Presentation	New slides in PPT	Formatting text in PPT	Buttons and Images in PPT	Animations and Transitions in PPT	Hyperlinks in PPT
Term 2	YR4(IT5.2A)/25(1)	YR4(IT5.2A)/26(1)	YR4(IT5.2B)/27(1)	YR4(CN4.2A)/28(1)	YR4(CO4.1A/CO4.1C)/29(1)	YR4(CN4.1A/1B)/30(1)	YR4(CN4.3A)/31(1)	YR4(CN4.3B)/32(1)
	HANDLING DATA-SPREADSHEET		GRAPHIC MANIPULATION AND COPYRIGHT		ONLINE SAFETY		SEARCHING AND COMPARING	
	Working with a spreadsheet- Generating a calendar	Types of Graphs in Spreadsheet	Spreadsheet-Structure and Arithmetic operations	Copyright	Selection of digital devices and software	Online Safety	Using search engines	Evaluating the information

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(PS5.1A, 1B)/1(1)	YR5(PS5.1C, 1D)/2(1)	YR5(PD5.1A)/3(1)	YR5/4(1)	YR5/5(1)	YR5(PD5.1B, 1C)/6(1)	YR5(PD5.1E, 1F)/7(1)	YR5/8(PD5.1D)(1)
	ALGORITHMS AND FLOWCHART				PROGRAMMING AND DEVELOPMENT			
	Understand algorithmic Constructs	Create algorithm using constructs	Error Correction in an Algorithm	Representation of an algorithm	Use of constructs in Flowchart	Introduction to Programming and Development	Variables in Python	Coding for a user input
Term 1	YR5/9(1)	YR5/10(1)	YR5/11(1)	YR5/12(1)	YR5/13(1)	YR5/14(1)	YR5(CO5.1A)/15(1)	YR5(CN5.1A, 1B)/16(1)
	WORD PROCESSING SKILLS		CREATIVE MEDIA ANIMATION		DATABASE		NETWORKS AND INTERNET	
	Advanced Features in Word	Text wrapping and Tables in Word	Introduction to Multimedia	Video Editing using multimedia	Database Elements	Database in MS Access	Types of Network	Network- World Wide Web
YEAR 5	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	YR5(IT5.2A)/17(1)	YR5(IT5.2D)/18(1)	YR5(IT5.2B)/19(1)	YR5(IT5.2C)/20(1)	YR5/21(1)	YR5/22(1)	YR5/23(1)	YR5(CN5.2A, 3B)/24(1)
	SPREADSHEET SKILLS				PRESENTATION SKILLS		GRAPHICS	
	Basic Structure	Creating Charts/Graphs	Basic formulae for arithmetic operations	Basic Functions	Introduction to Presentation, Animation and Transition effects	Creating images using graphical skills	Using Image editing tool	Methods to secure personal data
Term 2	YR5(CN5.2B)/25(1)	YR5/26(1)	YR5/27(1)	YR5/28(1)	YR5(CN5.3A/CO5.1D)/29(1)	YR5/30(1)	YR5/31(1)	YR5/32(1)
	ONLINE SECURITY						SCRATCH	
	Forms of cyber attack	Hardware and Software	Hardware and Software	Communications and Networks- Communication of	Communications and Networks-	File Handling	Introduction to Scratch	Create Animation using

	Forms of Cyber attack	Hardware and Software	Hardware and Software	Networks- Communication of digital devices	Online Services	File Handling	Programming	Scratch programming
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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(PS6.1A, 1B)/1(2)	YR6(PS6.1C, 1E)/2(2)	YR6(PS6.1D)/3(2)	YR6/4(2)	YR6/5(2)	YR6/6(2)	YR6(PD6.1B)/7(2)	YR6(PD6.1C-1E)/8(2)
	ALGORITHMS			FLOWCHART		PROGRAMMING AND DEVELOPMENT		
	Definition of an Algorithm	Creation and Decomposition	Identifying and Debugging Errors	Introduction to flowchart	Structural components of a flowchart	Introduction to Programming and Development	Data types and Programming fundamentals	Coding in Python
Term 1	YR6(PD6.1F-1H)/9(2)	YR6(PD6.1A)/10(2)	YR6/11(2)	YR6(IT6.2A, 2B)/12(2)	YR6/13(2)	YR6(IT6.2C)/14(2)	YR6/15(2)	YR6/16(2)
	WORD SKILLS		DATABASE MANAGEMENT SKILLS		SPREADSHEET SKILLS		CREATIVE MEDIA ANIMATION	
	Paragraph and Font formatting	Structure and Data type	Creating Database and Table	Sorting and Search/Query	Spreadsheet Elements	Formulae for Arithmetic Operators and Functions	Introduction to Multimedia	Video Editing
YEAR 6	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	YR6/17(4)		YR6/18(2)	YR6/19(2)	YR6/20(2)	YR6/21(2)	YR6(CN6.1A, 2B/2A, 2C)/22(4)	
	PRESENTATION		GRAPHICS		FILE HANDLING		COMMUNICATIONS AND NETWORKS	
	Creating Slides and Hyperlinks in Presentation	Image editing tools to create an image	Handling Files	Impacts of Networks	Stay Safe Online	Content, Contact and Conduct	Online Communities	Online Services
Term 2	YR6(CN6.2D)/23(2)	YR6/24(2)	YR6/25(2)	YR6(CO6.1A)/26(4)		YR6(CO6.1B, 1D)/27(2)	YR6(CN6.2E, 2F)/28(2)	YR6/29(2)
	HEALTH AND SAFETY				BIGGER PICTURE			
	Health and Safety, Environmental impact of Technology	Health and Safety, Environmental impact of Technology	Health and Safety, Environmental impact of Technology	Health and Safety, Environmental impact of Technology	Impacts of technology	More on technologies	Features of Software Applications	More on Information Technology

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/L-1,2(2)	YR7/L-3,4 (2)	YR7/L-5,6(2)	YR7/L-7,9,10(2)	YR7/L-1,6(2)	YR7/L-2,7(2)	YR7/L3,8,9(2)	YR7/L4,10 (2)
	SAFE PRACTICE				RESPONSIBLE PRACTICE			
	The internet and 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/ Reviewing and proofreading documents	Research a newsletter/ Distributing digital documents
Term 1	YR7/L-1,2 (2)	YR7/L-3,4,5(2)	YR7/L-6,7 (2)	YR7/L-8,9,10(2)	YR7/L-1,2(2)	YR7/L-3,4(2)	YR7/L-5,6(2)	YR7/L-9,10(2)
	CONNECTIVITY AND THE INTERNET				INTERNET PROTOCOL AND BINARY			
	Wired and wireless networks/ Mobile internet access	Wired connections / Satellite communication / Internet bandwidth	Comparing web browsers / Comparing search engines	Internet filtering and censorship / Creating well presented documents	Binary representation / Binary computing	Converting binary to denary / denary to binary	ASCII and Unicode	Network speeds
YEAR 7	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
	YR7/L-1,3(2)	YR7/L-4,5(2)	YR7/L-6(2)	YR7/L-7(2)	YR7/L-7(2)	YR7/L-7(2)	YR7/L-9(2)	YR7-(2)

Term 2	PROGRAMMING (A)							
	An introduction to programming/ Using Operators	BIDMAS/ Relational operators	Using variables	Sequence	Selection	Selection	Error checking	Revision
	YR7/L - 1,2(2)	YR7/L-3(2)	YR7/L-4(2)	YR7/L-5(2)	YR7/L-6,7(2)	YR7/L-8(2)	YR7/L-10(2)	Yr7/(2)
Term 1	PROGRAMMING (B)							
	Integrated development environments / Tracing tables	Data types and converting data	String methods	Escape characters and string slicing	String concatenation	Efficient programming	Creating simple graphics using coding	Revision

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	YR8/1(1)	YR8/2(2)		YR8/3 (1)	YR8/4 (1)	YR8/5 (1)	YR8/6 (1)	YR8/7 (1)
	YR8/DR8.1B/SS8.2A(2)	YR8/DR8.1C(2)	YR8/DR8.1D(2)	YR8/DR8.1A(2)	YR8/DR8.1E(2)	YR8/DR8.1F(2)	YR8/DR8.1G(2)	YR8/SS8.2B(2)
	BINARY AND ONLINE GRAPHICS				DATA ON THE WEB			
	Bitmap images representation in binary/Features of image types: bitmap, vector	Create a binary word to represent a simple bitmap image	Create a simple bitmap image that is represented by a binary word	Understand how to perform simple binary arithmetic (addition)	Capacity of storage	Convert between binary and denary multiples of values for storage	File storage is measured in bytes and be able to calculate storage requirements	Compression, resizing, use for web
Term 1	YR8/SS8.1A/SS8.1B(2)	YR8/SS8.1C/PD8.2B(2)	YR8/PS8.2A/PS8.2B(2)	YR8/SS8.1D/IT8.1A/PS8.2A(2)	YR8/SS8.1E/SS8.1F(2)	YR8/SS8.1G/SS8.1H(2)	YR8/IT8.1G/IT8.1H(2)	YR8/2.5-2.6(2)
	PROCESSING DATA				ANALYSING DATA			
	Format a worksheet/ use formulae that include multiple arithmetic operators, percentage	Use functions / Use subprograms	Computational abstractions/Program abstractions of real-world examples	Use multiple worksheets/The environmental impact of the manufacture, use and disposal of technology	Use sorting/ Use filtering	Use graphs and charts/ Select appropriate graph/chart and format it effectively	Information that fit for purpose and audience/ Use software facilities	Revision
YEAR 8	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
Term 2	YR8/PS8.2A/IT8.1B(2)	PD8.1A(2)	YR8/PD8.1B(2)	YR8/PD8.1B/PD8.3A(2)	YR8/PD8.1B(2)	YR8/PD8.1B/PD8.4A(2)	YR8/PD8.1B(2)	YR8/PD8.2A(2)
	PROGRAMMING							
	Computational abstractions/ Range of devices	Program abstractions of real-world examples / Code an algorithm in both a visual and textual language/variables and type declarations	Use sequence	Use selection(Simple if/ If.. Else) / Use logic operators	Use (Elif / Nested if)	Use iteration/ Fix syntax and logic errors in a program	Use iteration	Use lists: Items, indices, replacing list items, slicing;
Term 2	YR8/PD8.2A(2)	YR8/PD8.2A(2)	YR8/CO8.1A/CO8.1B(2)	YR8/CO8.1C(2)	YR8/CN8.1A/CN8.2A(2)	YR8/CN8.3A(2)	YR8/CN8.4A/CN8.5A(2)	YR8/3.6(2)
	PROGRAMMING				SOFTWARE AND COMMUNICATION			
	Use lists: understand and use methods: append, insert, sort	Use lists: traversing lists (see iteration)	Operating system / Systems/utility software	Applications software	Components of the WWW / Components used to access the Internet	Wireless communication	Vulnerable to cyber-attack / Technology allows individuals' movements and communications	Revision