St Patrick's Catholic Voluntary Academy
Topic: Computing Long Term Plan 2021-2022: Years 1 – 6

Week	Year 1	Year2	Year3	Year 4	Year 5	Year 6
	Computer Skills	**Using the internet**	**Turtle Logo Scratch**	**Word processing**	**Scratch**	**Scratch Animated Stories**
1	**E-Safety** Keeping safe online	**E-Safety** Digital footprints	**E-Safety** To know what cyberbullying is and how to address it	**E-Safety** Cyberbullying I can identify how a message can hurt someone's feelings

I can say how I should respond to a hurtful message | **E-Safety** Spam emails | **E-Safety** Cyberbullying I can find similarities and differences between in person and cyberbullying

I can identify good strategies to deal with cyberbullying |
| 2 | I can use a computer mouse

I can use a trackpad | I can search the Internet using one word

I can stay safe when using the Internet | Using Turtle Logo I can create and debug an algorithm using the move, rotate and repeat commands | I can format images for a purpose | Design and program a character game | I can create appropriate animations for a story scene |
| 3 | I can switch on and shutdown a computer | I can search the Internet to find results suitable for children

I can search for information safely online | Using Turtle Logo I can create and debug algorithms using penup and pendown | I can use formatting tools to create an effective layout | Design an original character or backdrop for a game | I can structure and control the timing of events |
| 4 | I can launch an application and manipulate windows | I can follow links to another web page

I can follow links safely online | Using Turtle Logo I can create and debug algorithms that draw regular polygons | I can use the spellcheck tool | Add features or effects to enhance a game | I can control when objects need to be visible |
| 5 | I can save a file | I can create content for an online blog

I can use a camera to take safe photos to use online | Using Scratch To create and debug algorithms that draw shapes | I can insert and format a table in a word processing document | Create a specific animated game with a specific goal | I can sequence events to create a story narrative |
| 6 | I can drag objects | I can create content for an online blog

I can use an online blog safely and respectfully | Using Scratch To create and debug algorithms that draw regular polygons | I can change a page layout for a purpose | Program costume changes for a sprite | I can add voice sounds to enhance an animated story |

7	I can identify and practise my computer skills.	I can post positive comments and responses on a blog	Using Scratch To create and debug algorithms to draw patterns	I can create hyperlinks within a word document	I can add point-scoring and levels to game code	I can add interactive user features to a scene or story
	Word Processing	**Computer Art**	**Word Processing**	**Scratch programming**	**Controlling Devices: Flowol**	**Spreadsheets**
8	I can type on a keyboard	**E-Safety** Keywords	**E-Safety** To understand how websites use advertisements to promote products	**E-Safety** To use search engines safely	Draw and interpret a flowchart with the correct symbols	I can identify secure websites by identifying privacy seals of approval
9	I can type symbols and save files	I can create computer art	Screenshots and Passwords	I can compare quizzes and decompose a problem into smaller parts	Create and edit a flowchart to control a simulated device	I can enter data and formulae into a spreadsheet
10	I can edit text	I can use a range of tools in a computer program to reproduce a style of art	I can change the case of text	I can write and debug a program	Control multiple outlets at the same time	I can order and present data based on calculations
11	I can use a keyboard	I can make and edit shapes to create a piece of art	I can align text	I can write and debug a program I can use sequence and selection	Use a decision symbol based on the status of an input	I can add, edit and calculate data
12	I can select and format text	I can change the shade of a colour for effect	I can use bullets and numbering	I can write and debug a programs which use sequence and repetition I can work with variables	Create a flowchart program containing a subroutine.	I can use a spreadsheet to solve problems.
13	I can format the font	I can retrieve a file to edit in a computer program	I can use the ctrl key	I can write and debug a program which uses sequence I can work with variables	Design, write and debug my own flowchart for a given task	I can plan and calculate a spending budget
14	Producing text using skills learnt in unit	I can use a range of skills to create a piece of art	I can insert and format text boxes	I can write a program I can work with variables	Design, write and debug my own flowchart for a given task	I can design a spreadsheet for a specific purpose
15	Producing text using skills learnt in unit	I can use a range of skills to create a piece of art	Consolidate wp skills	I can design, write and debug my own program by selecting appropriate visual block commands to create a sequence	Design, write and debug my own flowchart for a given task	I can design a spreadsheet for a specific purpose
	Painting	**Preparing for Turtle**	**Drawing and DTP**	**Programming Turtle Logo**	**Radio Station**	**Kodu**
16	I can paint with different colours	**E-Safety** be the judge which sites are safe	**E-Safety** To create strong passwords and understand	**E-Safety** How to avoid plagiarism I understand the term	**E-Safety** Plagiarism	I understand the benefits and pitfalls of online relationships

			privacy settings.	'plagiarism' and how to avoid it		I can identify information that I should never share
17	I can paint with different brushes	I can give and follow an algorithm to turn right or left	I can draw with different shapes and lines	I can create and debug an algorithm to create a procedure	I can use software to create my own sounds by recording, editing and playing	I can investigate and evaluate the features of programming software
18	I can create shapes and fill areas.	I can give and follow an algorithm to make half and quarter turns	I can order and group objects	I can create and debug an algorithm that uses setpos to draw shapes	I can combine audio effects to create an original radio jingle	I can program Kodu using 'When' and 'Do' instructions
19	I can make changes to improve my work	I can give and follow an algorithm using the commands right 90 and left 90	I can manipulate shapes and lines	I can create and debug an algorithm with different colours	I can research and plan digital content for a radio podcast	I can use tools and add features to create an original landscape in Kodu
20	I can add text to a painting	I can give, follow and complete an algorithm	I can recognise effective layout	I can create and debug an algorithm to fill areas with colour	I can use software to create and present digital content for a radio podcast	I can analyse and deconstruct code to work out its purpose
21	I can use a computer program to make a poster	I can use recognised language in an algorithm	I can combine text and images	I can create and debug an algorithm to produce text	I can design and record a persuasive radio advert for a product or a service	I can program a character to be controlled around a custom track to reach a goal
22	Creating a painting using skills learnt	I can create, test and debug an algorithm	I can lay out objects effectively	I can create and debug an algorithm to draw arcs	I can present and evaluate audio content	I can program a character to follow an automatic path
	Programming Toys	**Programming Turtle Logo and Scratch**	**Internet Research**	**Animation**	**3D Modelling**	**Film making**
23	**E-Safety** Owning Creative work	**E-Safety** Rate and Review	**E-Safety** To safely send and receive emails	**E-Safety** How to be a good digital citizen	**E-Safety** Secure passwords	I can identify how the media play a powerful role in shaping ideas about girls and boys
24	I can create instructions using pictures	I can create an algorithm to move or rotate the turtle	I can identify how word order affects search results	I can describe early forms of animation before computers and how computers have made a difference	Draw 3D shapes.	I can use appropriate software and other tools effectively to write a film script
25	I can say why it is important to be precise when writing an algorithm	I can create an algorithm and use the repeat command	I can explain how searches return results	I can create a short computer animation using one or more moving stick figures	Add detail to 3D drawings	I can locate and check appropriate digital content, and provide accurate crediting of sources
26	I can write instructions to program a person like a computer	I can create an algorithm and use the repeat and say command	I can identify the ways, and investigate how, we communicate online	I can create a recorded animation involving a number of moving	Add detail to 3D drawings	I can use digital recording devices to film and import into video editing software

				characters on a background		
27	I can program a Bee-Bot (or similar programmable toy) to move	I can create an algorithm and use the green flag to start	I can explain how to stay safe when communicating online	I can structure specific timing of animations using a time slider	Add and manipulate 3D models	I can plan, conduct and import video interviews as part of a short film
28	I can debug a Bee-Bot (or similar programmable toy).	I can create an algorithm and use the commands to change the backdrop and add sprites	I can explain why I need to be responsible online	I can use a camera to create a short stop motion animation film	Create a complex 3D model	I can use video editing software to create a short film
29	I can program a sequence to make a Bee-Bot (or similar programmable toy) move	I can create an algorithm and use the commands to change the backdrop and add sprites	Consolidating internet research	I can analyse and evaluate software	Create a 3D model of own design	I can use video editing software to turn a film project into a finished movie and present it
	Programming with Scratch Jr	**Presentation Skills**	**Presentation Skills**	**Using and applying**	**Using and applying**	**Using and applying**
30	**E-Safety** Staying SMART online	**E-Safety** Being Kind online	**E-Safety** To explore different ways children can communicate online	**E-Safety** -• To create an online safety superhero character - an engaging, open-ended project for pupils to apply the skills they have developed by working on other units within the year group	**E Safety** fake images	I can apply my online safety knowledge to my online activities
31	I can describe and use instructions to program a character	I can use basic computer skills• I can use a folder	I can plan a branching story	Ongoing project	Children research and plan a new bedroom design. I can research and design a new bedroom using appropriate software to create and present the plans	Select, use and combine a variety of software to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. Children research and design the content for a new game using known software, then plan a launch for the game with a website or advert. I can design a new game, using appropriate software to present information and advertise a product launch

32	I can program a character to grow and shrink	I can organise ideas for a presentation	I can create slide templates and organise slides with hyperlinks	Ongoing project	Ongoing project	Ongoing project
33	I can use instructions to make characters move at different speeds and distance	I can create a simple presentation with text	I can add theme, transitions and animation to a presentation	Ongoing project	Ongoing project	Ongoing project
34	I can use a repeat instruction to make a sequence of instructions run more than once	I can add and format an image	I can use action settings	Ongoing project	Ongoing project	Ongoing project
35	I can create programs that play a recorded sound	I can reorder slides and present a presentation	I can insert audio and video	Ongoing project	Ongoing project	Ongoing project
36	I can create programs with a sequence of linked instructions	I can search and print	I can evaluate slide layout and make improvements	Ongoing project	Ongoing project	Ongoing project
37	Using and Applying	Using and Applying	Using and Applying	Ongoing project	Ongoing project	Ongoing project
38	Using and Applying	Using and Applying	Using and Applying	Present their plans	Present their plans	Present their plans
39	Using and Applying	Using and Applying	Using and Applying	Present their plans	Present their plans	Present their plans