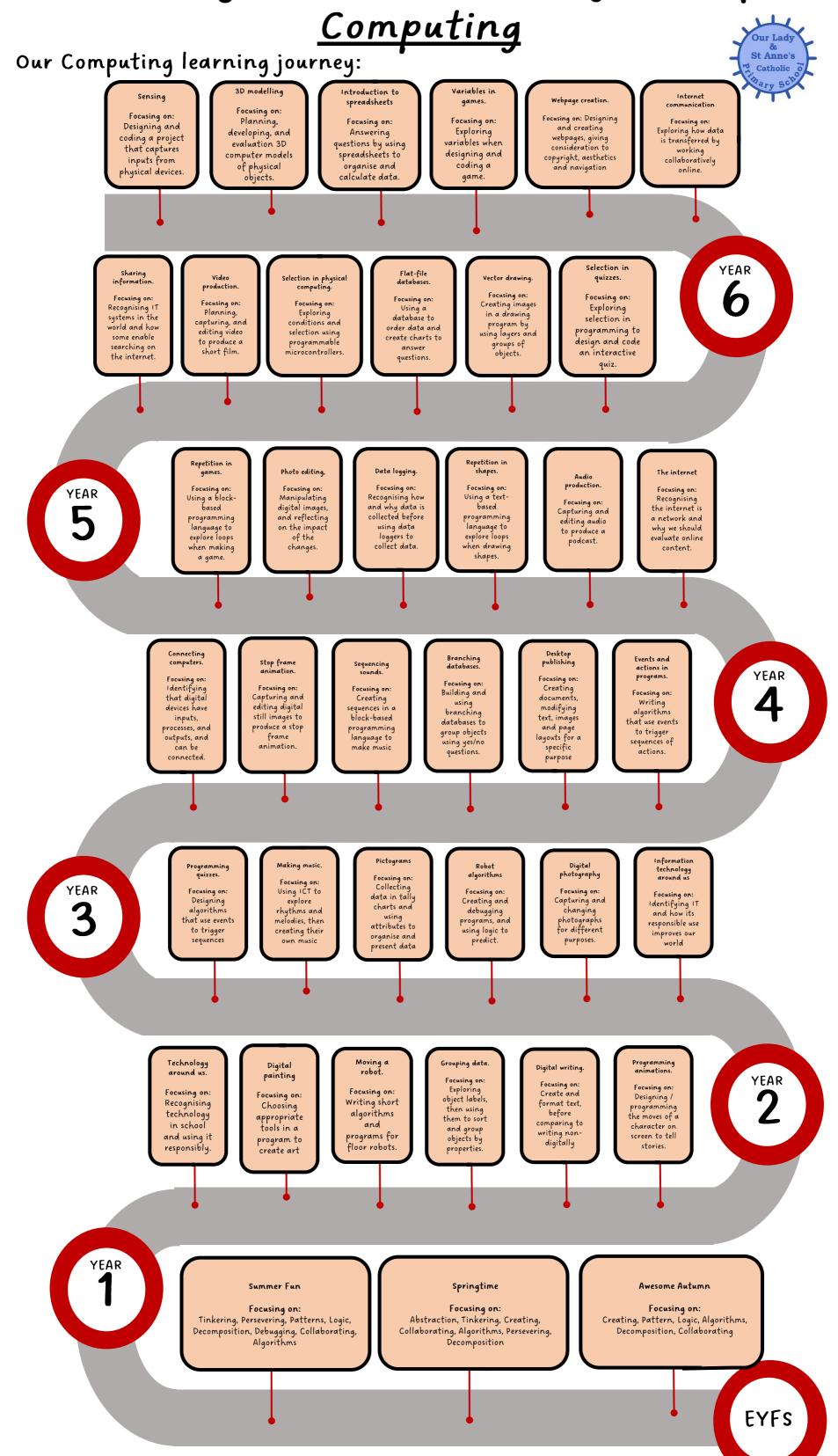
Our Lady and St Anne's Subject Map:



Our key learning questions:

		1						.	.	ı		
EYFS	Collaborati on What shall I do? Who did you work with? Whose turn is it? Do you have the same as? Who can you work with to change this?	Creati How you m that? what i does. Did test it you lik about yours? work a work a work a to? work a to? work a could better could	did ake wme t you at do sit you d it nder be it	Tinkering ■ Why don't you try ■ What do you think will happen? ■ I wonder what might happen if	/ model how you (the adult) is	the patter is the mistal this patter how we could it It is the for you	at is ime / rent you on the rn? rea a ke in rea fix what rule our	Logical Reasoning I wonder what will happen I wonder how it works Will itfloat / sink / break / fall etc? Why? Why not? What happened? Did that surprise you? Why? What have you found out? How do	Abstraction What do you need to include? Which parts are important? Why do / don't you need that? Why did you choose to include? Do you have the same as? How is yours different? Is that important?	Algori Whi one m comes Whi one is before after one? Whi one is last of the rice order	ch ight first? At next? ch ch this che ne you nese into ght	Decomposition What do we need to do? What are the main parts we need to do / make? What do we need to do first? Which part shall we think about next?
	do to chang		e it?		patter		rn? you know that?					
1	Can I identify a computer and its main parts?		Can I describe what different freehand tools do?		Can I explain what a given command will do?		Can 1 organise digital content?		Can 1 add and edit text in a word processor?		Do I understand what algorithms are?	
YEAR	Can 1 identify rules to keep us safe and healthy when using technology?		Can I use the tools to create and manipulate digital content?		Can I combine four direction commands to make a sequence?				Can I change the look of the text that has been written?		Can I choose a command for a given purpose?	
YEAR 2	Can I recognise common uses of Information Technology beyond school?		Can I create digital content?		Can I use the same instructions to create different algorithms?		Can I enter data into a computer?		Can I create digital music content?			build sequences tch my design?
	Can I say how rules keep me safe using IT?		Can 1 explain the process of taking a good photograph?		Can 1 predict the outcome of a simple sequence?		Can I use a computer program to present data in different ways?		Can I manipulate music content?			
YEAR 3	Can I explain that digital devices accept inputs and produce outputs?		Can I create an effective stop-frame animation?		Can I build a sequence of commands?		Can I create a branching database using yes/no question?		Can 1 add text and images to a page layout?		se comma	I build more quences of nds to make my sign work?
	Can I recognise that a computer network is made up of a number of devices?		Can I combine other media with my animation? Can I edit my animation?		Can I create a program to make a musical instrument digitally?		Can I test a branching database?		Can I make changes to content after I have added it?			test a program a given design?
4	Can I explain that the internet is used to provide multiple services?		Can 1 record content following a plan?		Can I create a count controlled loop to produce a given outcome?		Can I use a data logger to collect information at intervals?		Can I edit images by using editing software?		Can I create a design with infinite loops?	
YEAR	Can I explain why some information on the internet is honest, accurate or legal?		Can I arrange multiple sounds to create the effect I want?		Can I design a program that includes count controlled loops?		Can I collect and analyse data that has been collected?		Can I create a project using a combination of images?		Can I create a program which uses 2 or more loops?	
YEAR 5	Can I make and refine a web search to find specific information?		Can I create a video using a range of techniques?		Can I explain that a condition being met can start / stop an action?		Can I use tools such as AND/OR to select specific data?		Can I group objects to make them easier to work with?		Can I explain how selection directs the flow of a program (using if, then, else)?	
	Can I explain how search engines select results and rank them?		Can I identify that video can be improved through reshooting and editing?		Can I use selection to produce an intended outcome? Can I test and debug my project?		Can I select an appropriate chart to visually compare data?		Can I create a vector drawing by combining shapes?		Can 1 create a program that uses selection?	
9 3	Can I identify how data is transferred across the internet?		Can I explain the ownership and use of images (copyright)?		Can I design a program using variables?		Can I enter data into a spreadsheet?		Can I create a 3D model for a given purpose?		Can I use an operand (eg. <>=) in an if/then statement?	
YEAR	Can 1 explain the opportunities that networks offer to communication and collaboration?		Can 1 make multiple web pages and link them using hyperlinks?		Can I test the code that I have written and correct?		Can I apply a formula to calculate the data I need to answer questions?		Can I modify my 3D Model to improve it?		Can I create a program using inputs and outputs on a controllable device?	

<u>Unit overviews</u>

EYFS	Three Autumn the which see the child patterns in Garlan a leaf labyrinth a Pumpkin Soup usin thinking skills.	dren explore nds Galore, create nd make	Three Spring them the children make create Junk scare sequencing whilst	e a Rabbit run, crows and explore	Children explore their surroundings and get creative, take a journey and make a map, and discover seaside tangrams, in these three fun activities.		
YEAR 1	Technology around us Recognising technology in school and using it responsibly.	Digital painting Choosing appropriate tools in a program to create art, and making comparisons with working nondigitally.	Moving a robot Writing short algorithms and programs for floor robots, and predicting program outcomes.	Grouping data Exploring object labels, then using them to sort and group objects by properties.	Digital writing Using a computer to create and format text, before comparing to writing non- digitally.	Programming animations Designing and programming the movement of a character on screen to tell stories.	
YEAR 2	Information technology around us Identifying IT and how its responsible use improves our world in school and beyond.	Digital photography Capturing and changing digital photographs for different purposes.	Robot algorithms Creating and debugging programs, and using logical reasoning to make predictions.	Pictograms Collecting data in tally charts and using attributes to organise and present data on a computer.	Digital music Using a computer as a tool to explore rhythms and melodies, before creating a musical composition.	Programming quizzes Designing algorithms and programs that use events to trigger sequences of code to make an interactive quiz.	
YEAR 3	Connecting computers Identifying that digital devices have inputs, processes, and outputs, and how devices can be connected to make networks	Stop-frame animation Capturing and editing digital still images to produce a stop frame animation that tells a story	Sequencing sounds Creating sequences in a block-based programming language to make music.	Branching databases Building and using branching databases to group objects using yes/no questions.	Desktop publishing Creating documents and modifying text, images and page layouts for a specific purpose	Events and actions in programs Writing algorithms and programs that use a range of events to trigger sequences of actions.	
YEAR 4	The internet Recognising that the internet is a network of networks including the WWW, and why we should evaluate online content	Audio production Capturing and editing audio to produce a podcast, ensuring that copyright is considered.	Repetition in shapes Using a text-based programming language to explore count-controlled loops when drawing shapes.	Data logging Recognising how and why data is collected over time, before using data loggers to carry out an investigation,	Photo editing Manipulating digital images, and reflecting on the impact of the changes and whether the required purpose is fulfilled,	Repetition in games Using a block-based programming language to explore count-controlled and infinite loops when creating a game.	
YEAR 5	Systems and searching Recognising IT systems in the world and how some can enable searching on the internet.	Video production Planning, capturing, and editing video to produce a short film.	Selection in physical computing Exploring conditions and selection using a programmable microcontroller.	Flat-file databases Using a database to order data and create charts to answer questions.	Introduction to vector graphics Creating images in a drawing program by using layers and groups of objects.	Selection in quizzes Exploring selection in programming to design and code an interactive quiz.	
YEAR 6	Communication and collaboration Exploring how data is transferred by working collaboratively online.	Webpage creation Designing and creating webpages, giving consideration to copyright, aesthetics and navigation.	Variables in games Exploring variables when designing and coding a game.	Introduction to spreadsheets Answering questions by using spreadsheets to organise and calculate data	3D modelling Planning, developing, and evaluation 3D computer models of physical objects.	Sensing movement Designing and coding a project that captures inputs from physical devices.	