

# Blessed Sacrament - Computing across the Curriculum Long Term Planning Map - [Y1]

This is your long-term overview for Computing. Please add to or amend this plan through the year. Underneath each section are the key skills for that area of computing. These can be assessed using the Assessment tracker spreadsheet. Refer to the Skills Sheets for more guidance in this section and essential steps for teaching. More activities and suggestions can be added as other subject areas are added to the plan.

#### T = Tutorial Available

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics	Hot and cold places		Then and now		What is in the UK?	
Science	Animal t Fact Setting de Animal clo Human and anim	files escriptions escriptions	Winter investigations Cookery		Materials uses and properties Spring and Summer investigations	
Literacy					Retelling familiar stories	
History			Toys The great fire of London Fire brigade changes over time Focus will be on Tudor/Victorians/80's/now Kings and Queens Clothing Houses		Queen El	izabeth II
Geography	Autumn inv	differences of nment/species	Weather		Countries, cities and Liverpool I Clay lar Local ge Building	andmarks ndmarks ography
Music			Music from the past and now			
Art / DT	Colour Sketching of differen	mixing t animals and leaves			Sketc Design and ma	

Tutorial Link							
Control and Programming	Code-a-pillar app Sequencing directions. Drag on the directional commands and tap the caterpillars head to guide the sprite through increasingly different levels. CS1.2,CS1.3	Jam Sandwich Children give instructions to a teacher robot to make porridge or a sandwich. See link for ideas from Jam Sandwich project PDFs. CS1.1,CS1.4,CS1.5	Box Island app Develop sequencing skills and directional language. Each child can create their own profile or teachers can manually record each child's progress e.g. on ticklist. CS1.2,CS1.3	ALEX the Robot app Develop skills in sequencing and debugging directional instructions. Encourage children to show resilience and work through initial levels. T Teachers will need to manually record each child's progress e.g. on ticklist. CS1.2,CS1.4	Code Studio Create user accounts for class on https://studio.code.org/ website. After choosing appropriate age/ability course level for pupils to start from, allow them to work through course materials each term. Track and target pupil progress using the built-in pupil tracker. T CS1.1,CS1.2,CS1.3,CS1.4,CS1.5		
Key Skills	CS1.1 Be able to say what an 'algorithm' is. CS1.2 Be able to use the appropriate keys or commands to make a virtual or floor robot go forward, backward, left and right. CS1.3 Be able to program a bot or sprite by giving simple sequences of commands with an immediate outcome. CS1.4 Can use basic symbols to record directional instruction. CS1.5 Be able to use a developing range of language and styles of control e.g. tilt and turn/instructional to direct a robot.						

# Digital Literacy

# Tutorial Linb

			Tutonal Link			
Research: Internet	QR Codes Use a QR code to open the website quickly. Link here for making QR codes. DL1.2  BBC Science Animals Use the videos and activities to learn about animal classification. DL1.1	Infant Encyclopedia - Autumn and Harvest Allow children to explore the topic on computers or iPads by using a QR code or web link. Link here DL1.1,DL1.2	Users of technology Invite users of digital technology into school to demonstrate how technology can be used e.g. in the workplace.  Infant Encyclopedia - Victorians Allow children to explore the topic on computers or iPads by using a QR code or web link. Link here DL1.1,DL1.2	Infant Encyclopedia - Clothes through History Allow children to explore the topic on computers or iPads by using a QR code or web link. Link here DL1.1,DL1.2	Infant Encyclopedia - Houses (materials) Allow children to explore the topic on computers or iPads by using a QR code or web link. Link here DL1.1,DL1.2	Research Search for and find images using keyword search on KidRex or Google Junior or in-app web search. T DL1.1,DL1.2
	Introduction Ask children to write down or draw pictures of the sites they visit, apps or games they play on the internet. DT1.4, DT1.5  Digiduck Read and discuss story of friendship and responsibility online		Discuss being safe with Talk about how we sho with a tablet of people has asked us to. Also, ethat they should not showith other people they they give a stranger in themselves? Do they know the internet where they	euld only take pictures in class if our teacher explain to the children are their own picture do not know. Would the park a picture of now of any places on	Asking for help Explain to the children about something on the always ask for help. DT1.4, DT1.5  Common Sense Materia Going places safely How do you go places	ials

# Online Communication and eSafety

responsibility online.

Link here.

DT1.4, DT1.5

the internet where they could put their picture? Tell the pupils their pictures on a tablet should not be shared with other people you don't know.

Also use <u>Jessie and Friends: Sharing Pictures</u> Film

DT1.4, DT1.5

### **Smartie the Penguin**

Use resources from <u>Childnet</u> to look at what we share on the internet. Download teacher resources and lesson plans for Year 1.

DT1.4, DT1.5

How do you go places safely on the computer?

Login and download these Common Sense Media resources.

DT1.4, DT1.5

Modelling and Simulations	MarcoPolo Weather app Simulate and represent the effects of different weather. DL1.6  Animals in the local habitat Use school grounds animal activity to explore what kinds of animals they may find around the school grounds. DL1.1, DL1.6  Education City Animals, including humans Digital activities linked to animals and humans science topics. (Login required). Link here DL1.6	Great Fire of London Use the link below to find out what the GFOL was really like. Follow the story and find out about different artefacts along the way. Link here DL1.6	Google Earth Look at the local area, countries, cities and famous landmarks using aerial images. This could be done as a whole-class activity on the board, as part of a geography lesson. Identify physical features and also look at position on the 3D globe. T Link here DL1.6  Education City Animals, including humans Digital activities linked to animals and humans science topics. (Login required). Link here DL1.6
Education City	Maths activities and tools When planning maths lessons, explore these act Link here DL1.6	ivities to incorporate into your lessons. (Login requ	uired).
Key Skills	DL1.1 Be able to navigate a website using links. DL1.2 Can access information on the internet through QR codes or links on a device. DL1.3 Be able to use a search engine to search for given information or images by using keywords provided by the teacher. DL1.4 Be able to say what information is personal and should not be shared online with support. DL1.5 Be able to tell an adult if they feel something they see online is inappropriate or hurtful. DL1.6 Can change options in models/simulations that represent real or fantasy situations and scenarios to create different outcome and effects.		n support. nurtful.

Information	Technology

-				- 1
	1110	oria		nb
	ucc	JILL	L _L L	ILIC

	cation	0'1
FOLIA	- ation	
	~~!!!	

#### **Education City Reading and Writing tools**

Use the link below to explore a range of interactive reading and writing activities and tools. These can be used as a teacher led whole class activity or independent pupils activities depending on their ability. (Login required for teacher and pupils to access).

Link here

#### **BBC** typing game

Use <u>Dance Mat Typing</u> activities to develop keyboard skills. Start at Level One. (On-going) IT1.2

## Word Processing and Desktop Publishing

#### Pic Collage app

Present information about animals and their features, combining text and photos. Different animal images could be organised on the page to categorise them in different ways. Choose a suitable frame to place the images. Add text to each image.

#### **Purple Mash writing tools**

Use <u>2Create a Story</u> to form simple storyboards digitally. Combining pictures, drawing, text, sound and animation are all possible in this tool.

IT1.1, IT1.2

#### Shadow Puppet Edu

Search for images of different materials within the app, or use photographs that they have taken themselves. Add captions to the photos, selecting different options to make their text clear. Record a narration of their knowledge to create a film. Once they have saved their work, review and decide how to make improvements.

IT1.1, IT1.2, IT1.5

ChatterKids app

IT1.3, IT1.4, IT1.5

IT1.1, IT1.2, IT1.3

Save images of animals from Safari or teacher could provide them for the pupils. Add to Chatterkids. Ask pupils to prepare and rehearse what they are going to say. They could write this as a short script. Record their voices to create a video and bring their pictures to life. Add some text. Save to photo roll and then share.

#### Doodle Buddy app

Pupils create digital drawings, selecting relevant backgrounds, adding stickers and selecting brush colour, style and width. This could be linked to topics such as clothing, toys, the Great Fire of London or weather. IT1.3

#### Purple Mash drawing tools

Use <u>2Paint a Picture</u> to create different images based on a specific topic, such as weather or materials.

IT1.3

### Tiny Tap app

Share a few images of famous UK landmarks or materials to the iPads. Children can then add these into the Tiny Tap app, along with a title. Use the soundboard activity to allow children to explain each of the images by recording their voices.

IT1.4

#### Multimedia

#### Lit Film Fest

Use the <u>Lit Film Fest</u> website to access free English projects. Each project has a set of structured lessons based around writing genres and shows how technology can be incorporated to produce a performance video by the end of the project. Users will have to create a free account to access the free resources, while other projects are under a paid subscription. This could be linked to book reviews or poetry during the year. **IT1.4** 

Data Handling	Pictogram/Purple Mash 2Count Show data linked to animals. Demonstrate on board, then create a shortcut on the desktop for the children to easily access the site. This could also be completed as a whole class activity led by the teacher on the interactive whiteboard.  Link here Purple Mash link IT1.6	Purple Mash 2Graph Use 2Graph to create simple graphs or charts based on the topics being studied. This could be as a whole class activity or with children logging into Purple Mash (individually or in small groups).  IT1.6	Bar graphs Make bar graphs e.g. linked to weather or materials. IT1.6
Key Skills	IT1.2 When entering text, can use the IT1.3 Can use a range of simple tools IT1.4 Can use simple video or anima IT1.5 Can use a sound recorder or or	Can produce text, adding and making basic edits to text in appropriate word processing software.  When entering text, can use their knowledge of where most letters are located on the keyboard, using appropriate pur Can use a range of simple tools purposefully, to create and alter the appearance of an image.  Can use simple video or animation software.  Can use a sound recorder or on screen recorder to collect and store information as sound.  Be able to use suitable on-screen graphing software to represent information.	