St Peter's Computing Medium Term Plan

Year 2

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Coding (CS)	**Online safety (DL)**	**Searching the Internet (DL)**	**Creating digital music (IT)**	**Presenting ideas (IT)**	**Creating digital artwork (IT)**
Key learning Understand what an algorithm is Create a computer program using an algorithm Debug simple programs	Key learning Understand how we should talk to each other in an online situation Identify the steps that can be taken to keep personal data and hardware secure	Key learning Create a leaflet to help someone search for something on the Internet	Key learning Explore, edit and combine sounds to make music digitally	Key learning Explore how ideas can be presented in different ways	Key learning Learn the key functions of a paint program
Key Vocabulary Algorithm Bug Debug	Key Vocabulary Search Internet Digital footprint	Key Vocabulary Internet Search Search engine	Key Vocabulary Digitally Sound effect	Key Vocabulary Presentation Node Concept map	Key Vocabulary Palette Share Template
Key questions Why is an algorithm useful in coding?	Key questions What is your digital footprint? How can you keep your personal data and hardware secure?	Key questions How can I search the Internet?	Key questions What is meant by digital music?	Key questions What do we need to think about when planning a presentation?	Key questions How can a paint program help us to recreate certain styles of art?
Key resources 2Dos Free code chimp	Key resources Sharing 2Email	Key resources Internet search engine e.g. Google	Key resources 2Sequence	Key resources 2Connect	Key resources 2Paint a Picture
Purple Mash unit 2.1	Purple Mash unit 2.2	Purple Mash unit 2.5	Purple Mash unit 2.7	Purple Mash unit 2.8	Purple Mash unit 2.6

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Spreadsheets (IT)				**Sorting and representing data (IT)**
Key learning	Key learning How to copy and paste Use the totalling tools Perform money calculations Collect data and produce a graph	Key learning	Key learning	Key learning	Key learning Construct a binary tree to identify items Use a database to answer search questions
Key Vocabulary	Key Vocabulary Copy and paste Count Equals	Key Vocabulary	Key Vocabulary	Key Vocabulary	Key Vocabulary Data Binary tree Database
Key questions	Key questions How can copying and pasting in a spreadsheet be useful? How could a spreadsheet help you when planning some shopping?	Key questions	Key questions	Key questions	Key questions How is information organised in a binary tree? How can a database help organise information?
Key resources	Key resources 2Calculate	Key resources	Key resources	Key resources	Key resources 2Question
Purple Mash unit	Purple Mash unit 2.3	Purple Mash unit	Purple Mash unit	Purple Mash unit	Purple Mash unit 2.4

DL = Digital literacy; CS = Computer science; IT = Information technology