

## <u>Computing School Overview</u> <u>Teach Computing Scheme of Work and Progression Documents Used- 1<sup>st</sup> lesson of each half term = e-safety</u>

Hardware/equipment needed End goal	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn 1	Technology around us  Desktop  Hardware/Software:  Developing Keyboard  and mouse skills	Technology around us  Desktop Hardware/Software: Microsoft PowerPoint To identify Technology around us & what it does.	Connecting computers  Desktop Hardware/Software: Painting program Understanding Inputs, Outputs and Networks	The internet  Desktop  Hardware/Software:  Various websites  Understanding the  WWW & its content	Sharing information  Desktop Hardware/Software:  Understanding of computer systems and how information can be transferred	Communication  Desktop Hardware/Software: Understanding search engines & communication methods online
Autumn 2	Creating media- digital painting  Desktops Hardware/Software: Microsoft Paint  Creating various types of Art	Digital photography  Hardware/Software: Digital camera (Ipads)  To gain experience taking, editing, and improving photos.	Animation  Hardware/Software: iMotion (Ipads)  Creating a stopmotion Animation	Audio editing Desktop Hardware/Software: Audacity  (Ipads/microphones) Creating a Podcast	Video editing  Desktop  Hardware/Software:  Microsoft Photos  (Ipads)  Creating an Edited  Video	Web page creation  Desktop Hardware/Software: (Ppt)  Creating a functioning 'Website'
Spring 1	Programming- moving a robot  Hardware (Ipads/BeeBot) Understanding basic programming and prediction of commands	Robot algorithms  Hardware/Software:  (Ipads) Revisiting programming and prediction of commands	Programming- sounds  Desktop  Hardware/Software: Scratch Creating a music program on scratch	Programming- repetition in shapes  Desktop  Hardware/Software:  FMSLogo Program  the algorithms for  various	Programming- selection in physical computing Desktop Hardware/Software: Crumble controller + starter kit  Programming and building a mechanical design	Programming- variables in games  Desktop Hardware/Software: Scratch Design and program various games and their variables



## <u>Computing School Overview</u> <u>Teach Computing Scheme of Work and Progression Documents Used- 1<sup>st</sup> lesson of each half term = e-safety</u>

Spring 2	Grouping data  Desktop  Hardware/Software:  Microsoft PowerPoint  Labelling and groups  small sets of Data	Pictograms  Desktop  Hardware/Software: j2data Pictogram  To collect data and create several Pictograms	Desktop Hardware/Software: j2data Branch and Pictogram  To sort and create objects into a Branching Database	Data logging  Desktop  Hardware/Software: (Ipads)  Using a Data Logger app to collect and analyse Data	Flat file data bases  Desktop  Hardware/Software: j2data Database Using Flat-File Databases to collect data and answer questions	Introduction to spreadsheets  Desktop Hardware/Software: Microsoft Excel  To fill in and program a functioning Spreadsheet
Summer 1	Creating media- digital writing  Desktop Hardware/Software: Microsoft Word  Become familiar with keyboards to enter and remove text	Making music  Desktop (Tablet)  Hardware/Software: Chrome Music Lab  Creating a variety of musical tunes	Desktop publishing  Desktop  Hardware/Software:  Microsoft Publisher  Using templates and  Layouts, creating  publications such as  magazine front  covers	Photo editing  Desktop  Hardware/Software: Paint.NET (for Microsoft Windows) To create a variety of photoshopped pictures	Creating media- vector drawing  Desktop  Hardware/Software: Powerpoint To create a range of images using various shapes	3D modelling  Desktop  Hardware/Software:  Tinkercad  To create and design a range of 3D models
Summer 2	Programming- programming animations  Tablet (Desktop)  Hardware/Software: ScratchJr  Creating a simple Racing animation in ScratchJr	Programming quizzes  Tablet (Desktop)  Hardware/Software:  Creating an interactive Quiz Ipads/ScratchJr	Programming- events and actions in programmes  Desktop (Tablet)  Hardware/Software: Scratch  Programming movement and a painting program in Scratch	Programming- repetition in games  Desktop (Tablet)  Hardware/Software:     Scratch     Creating a video     game	Programming quizzes  Desktop  Hardware/Software:  Scratch  Using the concept of  'Selection' (if then  or) to program a quiz  Ipads/ScratchJr	Programming- sensing  Desktop (Tablet)  Hardware/Software: micro:bits  To program a range of algorithms that can accept inputs



## **Computing School Overview**

Teach Computing Scheme of Work and Progression Documents Used- 1st lesson of each half term = e-safety