



Year Group	8	Subject	Computing	Taught in	Autumn 1
Title	<b>Basic Skills and e-Safety</b>				
Summary	e-Safety scenarios where students need to use basic packages to create a story; e.g. Comic strip creation, slideshow, DTP for leaflets/bookmarks etc. Each lesson introducing a new scenario. Students then create a product in teams to get across a chosen message relating to e-safety. E.g. students create a video news report on... E-Safety content covered: 'First to a Million' covering aspects of posting inappropriate images (sexting), personal data,				
Key Skills	<b>ICT</b> – Use of word processor and PowerPoint for communication <b>Digital Literacy</b> – keyboard skills, saving work and filing of work, use of internet, e-safety <b>Computing</b> – <b>Other</b> – English and general literacy, organisation skills, discussion in pairs for e-safety issues.				
Cross-Curricular	<b>Careers</b> –				

Year Group	8	Subject	Computing	Taught in	Autumn 2
Title	<b>Computational Thinking</b>				
Summary	How to break down problems and solve them using computational thinking. Leads up to a national competition where students are entered for computational thinking.				
Key Skills	<b>ICT</b> – <b>Digital Literacy</b> – <b>Computing</b> – Computational thinking, problem solving, patterns, abstraction, algorithms <b>Other</b> -				
Cross-Curricular	<b>Careers</b> –				

Year Group	8	Subject	Computing	Taught in	Autumn 2/Spring 1
Title	<b>Website Creation</b>				
Summary	Students look at what content makes a good website. They then plan, design and create their own multi-page website including elements such as navigation bars etc.. Students are very much the designer of the completed site and are encouraged to use increasingly more technical methods of production. This includes image manipulation, use of HTML and coding, form based data collection page(s) and other interactive user features.				
Key Skills	<b>ICT</b> – Use of DTP style web site creation tool, use of basic text editor <b>Digital Literacy</b> – Visual literacy and theme management, manipulation of images <b>Computing</b> – Understanding of scripting languages and how web pages work <b>Other</b> -				
Cross-Curricular	<b>Careers</b> – Industry professionals introduce aspects of this unit via videos of the job they carry out and how it relates to the skill being introduced				



Year Group	8	Subject	Computing	Taught in	Autumn 1
Title	<b>Shop Budget and Business planning</b>				
Summary	Students create and setup branding and advertising/leaflet for their own shop. They then create a budget for the business using a spreadsheet. The students ensure that their business is making a profit and reacts to sales data in prediction of profits etc,				
Key Skills	<b>ICT</b> – DTP skills and Spreadsheets (formatting, calculations, formulae etc.) <b>Digital Literacy</b> – <b>Computing</b> – <b>Other</b> – Enterprise discussion, Maths/numeracy: calculations and formulae/graphs etc.				
Cross-Curricular	<b>Careers</b> –				

Year Group	8	Subject	Computing	Taught in	Spring 1
Title	<b>Physical Computing – Use of BBC Micro:Bits</b>				
Summary	Use of an online programming tool to create a block or text based program that is then tested on the Micro:Bit. Students start by looking at the nature of physical computing hardware and then program this to carry out a series of increasingly complex problems. Students create own Magic 8 Ball/fortune teller that reacts to user inputs. This is then built on to create music, and other game related scenarios. (Note – this unit builds on work carried out in Year 7 and extends programming aspects)				
Key Skills	<b>ICT</b> – <b>Digital Literacy</b> – <b>Computing</b> – Use of inputs and outputs, algorithms and programming in a text-based language, use of variables and selection. <b>Other</b> – Music sequencing and creating basic music track from notes/tones				
Cross-Curricular	<b>Careers</b> –				

Year Group	8	Subject	Computing	Taught in	Spring 2
Title	<b>Graphics – Image Manipulation and Drawing tools</b>				
Summary	Students use a photo manipulation package to integrate an image from one location to another and carry out a task where use of drawing tools to design a building/room (possibly in 3D). This unit brings together skills from previous years so that a more complex item is created in each case.				
Key Skills	<b>ICT</b> – <b>Digital Literacy</b> – Selecting and manipulating images <b>Computing</b> – Understanding of 3D design– bitmaps vs vector and pixels. <b>Other</b> – Art/ visual literacy, Design Technology – 3D design and CAD				
Cross-Curricular	<b>Careers</b> –				



## Long Term Overview

### Year 8 Computing

Ferndown Middle School

Year Group	8	Subject	Computing	Taught in	Summer 1
Title	<b>Newsroom Scenario</b>				
Summary	Students work as a small team of journalists to find and then create a set of news reports. Each team member is then responsible for aspects of reporting those news items. E.g. one member creates the website, another the radio version, one the newspaper and the last the DTP print version.				
Key Skills	<b>ICT</b> – Use of more than one package at the same time. <b>Digital Literacy</b> – sequencing events, passing text etc from one format to another, efficiency in use of basic tools <b>Computing</b> – Understanding of the limits of hardware and software, file formats and swapping between them. <b>Careers</b> – Industry professionals introduce aspects of this unit via videos of the job they carry out and how it relates to the work of a newsroom <b>Other</b> – Teamwork skills, presentation				
Cross-Curricular	<b>Careers</b> –				

Year Group	8	Subject	Computing	Taught in	Summer 2
Title	<b>Personal Challenge Project</b>				
Summary	Students select their own topic; involving designing and creating either a programming solution (e.g. use of Lego Mindstorms, Scratch or new language) or a creative product (e.g. slide show to music, animated character).				
Key Skills	<b>ICT</b> – <b>Digital Literacy</b> – <b>Computing</b> – <b>Other</b> -				
Cross-Curricular	<b>Careers</b> –				