




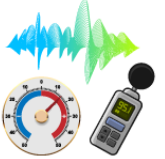




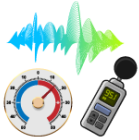






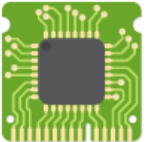

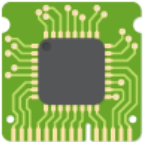


Computing Curriculum



OFFORD
PRIMARY SCHOOL

Computing Overview

	Year A	Year B
Year 1/2	<p>Online safety and effective searching.</p> <p>Lego builders</p> 	<p>Exploring Purple Mash and Maze explorers.</p> <p>Questioning</p> 
	<p>Grouping and sorting and creating pictures.</p> <p>Creating Pictures and spreadsheets</p> 	<p>Online safety and making music.</p> <p>Animated story books.</p> 
	<p>Coding</p> 	<p>Spreadsheets and pictograms</p> <p>Presenting ideas</p> 
Year 3/4	<p>Coding</p> <p>Online safety and spreadsheets</p> 	<p>Coding</p> <p>spreadsheets</p> 
	<p>Touch typing and email</p> <p>Email & graphing</p> 	<p>Logo and hardware investigators.</p> <p>Online safety and effective search</p> 
	<p>Branching databases</p> <p>Simulations and consolation</p> 	<p>Writing for different audiences.</p> <p>Animations & consolidations</p> 
Year 5/6	<p>Coding</p> 	<p>Coding</p> 
	<p>Online safety</p> 	<p>Online safety</p> 
	<p>Game creator</p> <p>Databases & 3D Modelling</p> 	<p>Blogging</p> <p>Text adventures</p> 
	<p>Concept maps</p> 	<p>Networks & Quizzing</p> 

Computing Vision Statement

Computing is changing the lives of everyone. Through teaching we equip children to participate in a rapidly changing world where work and leisure activities are increasingly transformed by technology. Computing aims to enable pupils to use computational thinking and creativity not only in the area of computer science, but also in cross-curricular way, linking to area of Mathematics, Science, English and many others. At the core of the study of computing, however, is computer science, in which pupils learn to study and manipulate information and computation, researching how digital systems are effectively structured and creating and debugging programs in a range of context. Alongside this, pupils will be supported in becoming safe and digitally literate individuals who can develop their ideas through the medium of ICT. The curriculum is designed around 4 strands: Online Safety, Digital Literacy, Understanding Technology, Programming and supported by planning and resources provided by the Purple Mash platform.

Aims and Objectives

- To support children to understand and apply the fundamental principles and concepts of computer science, information technology and digital literacy.
- To teach the children analyse problems in computational terms and have repeated practical experience of writing computer programs in order to solve such problems.
- To inspire children to evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems.
- To ensure that children are responsible, competent, confident and creative users of information and communication technology.

We will do this by:

- Developing children's individual Computing capability.
- Developing skills and understanding as well as knowledge.
- Developing the use of technical language.
- Enhancing learning in other areas of the curriculum using Computing.
- Developing Computing as a tool for learning and investigation in all subjects
- Equipping pupils with the confidence and capability to use Computing throughout their later life.
- Recognising the potential and deepen the awareness of the application and necessity of Computing in everyday life.
- Stimulating interest in new technologies.
- Exploring their attitudes towards Computing and its value to them and society in general. For example, to learn about issues of security, confidentiality and accuracy.
- Using Computing for effective and appropriate communication.
- Using their Computing skills to develop their language and communication skill

	Cycle A		Cycle B	
	Autumn Term 1:		Autumn Term 1	
Year 1/2	4 weeks	3 Weeks	4 weeks	3 weeks
	<p>Main Focus: PM unit 1.1 Online Safety Exploring Purple Mash</p> <p><u>Key Skills</u> Digital Literacy & Understanding Technology By the end of this unit I will be able to: *Use Purple Mash functions: Save, Print, Open, New *Understand the importance of logging out</p> <p><u>Key vocabulary</u> e-safety, save, create, login, icon, text, print, open, new</p> <p><u>Suggested activities:</u> Digi Duck story Avatar Creator Paint Projects Writing Templates 2 Explore (Music) Alternatives: Twinkl Y1 Computer skills Unit</p>	<p><u>Main Focus</u> PM Unit 2.5 Effective Searching</p> <p><u>Key Skills:</u> Digital Literacy & Understanding Technology By the end of this unit I will be able to: *Understand searching terminology *Create a leaflet</p> <p><u>Key vocabulary</u> Browser, search engine,</p> <p><u>Suggested Activities:</u> 2Quiz Writing Templates Alternatives: Twinkl Y2 - Using the Internet Unit</p>	<p>Main Focus: PM Unit 1.1 Online Safety Exploring Purple Mash</p> <p><u>Key Skills:</u> Digital Literacy & Understanding Technology By the end of this unit I will be able to: *Use Purple Mash to Save, Print, Open, and start a New file. *Understand the importance of logging out</p> <p><u>Key Vocabulary:</u> e-safety, save, create, login, icon, text, print, open, new</p> <p><u>Suggested activities:</u> Smartie the Penguin story Avatar Creator Paint Projects Writing Templates 2 Explore (Music) Alternatives: Twinkl Y2 Using and Applying Unit</p>	<p>Main Focus: PM Unit 1.5 Maze Explorers</p> <p><u>Key Skills:</u> Programming, Digital Literacy By the end of this unit I will be able to: *Use basic direction keys *Create and debug an algorithm *Add additional directions to an algorithm *Set challenges for each other</p> <p><u>Key Vocabulary:</u> Algorithms, instructions, programming,</p> <p><u>Suggested activities:</u> 2Go Beebots Alternatives: Twinkl Y1 Programming with Scratch Jnr</p>

Autumn Term 2:		Autumn Term 2
3 weeks	2 weeks	5 weeks
<p>Main Focus: PM Unit 1.4 Lego Builders Online Safety</p> <p><u>Key Skills:</u> Understanding Technology Programming <i>By the end of this unit I will be able to:</i> *Follow accurate instructions *Create simple instructions *Understand the order of instructions affects end result</p> <p><u>Key Vocabulary:</u> Algorithms, instructions, programming,</p> <p><u>Suggested activities:</u> https://www.youtube.com/watch?v=nMUbHuffO8 -CEOP Lee & Kim Paint Projects Writing Templates 2Quiz</p> <p><u>Alternatives:</u> Twinkl Y2- Turtle, Logo and Scratch Unit Barefoot - Beebots</p>	<p>Main Focus: PM Unit 1.9 Technology Outside School</p> <p><u>Key Skills:</u> Understanding Technology <i>By the end of this unit I will be able to:</i> *Find and record examples of where technology is used locally</p> <p><u>Key Vocabulary:</u> Technology, save, store, edit, annotate,</p> <p><u>Suggested activities:</u> Writing Templates iPad camera</p> <p><u>Alternatives:</u> Twinkl Y1 - Using and Applying Unit</p>	<p>Main Focus: PM Unit 2.4 Questioning Online Safety</p> <p><u>Key Skills:</u> Digital Literacy & Understanding Technology <i>By the end of this unit I will be able to:</i> *Know information on a pictogram is limited *Separate key information *Use a binary tree to answer questions *Use a database to answer questions *Use the search tool</p> <p><u>Key Vocabulary:</u> Pictogram, sort, information, binary tree, database, search</p> <p><u>Suggested activities:</u> Buddy the Dog - internet safety story (Twinkl) 2Question 2Calculate 2Investigatge</p> <p><u>Alternatives:</u> Twinkl Y1 Word Processing skills Y1 unit</p>

	Cycle A		Cycle B	
	Spring Term 1:		Spring Term 1	
	2 weeks	3 weeks - to be continued <i>World Safer Internet Day</i>	3 weeks	3 Weeks <i>World Safer Internet Day</i>
Year 1/2	<p>Main Focus: PM Unit 1.2 Grouping and Sorting <i>Online Safety</i></p> <p>Key Skills: <i>Digital Literacy</i> <i>By the end of this unit I will be able to:</i> *Sort and group items *Present data in picture format *Create a class pictogram and use it record results</p> <p>Key Vocabulary: Sorting, criteria</p> <p>Suggested activities: <i>Jessie & Friends story (Think U know)</i> 2Quiz</p> <p>Alternatives: Twinkl Y1 Logo Unit</p>	<p>Main Focus: PM Unit 2.6 Creating Pictures</p> <p>Key Skills: <i>Digital Literacy</i> <i>By the end of this unit I will be able to:</i> *Use the 2Paint a Picture function to recreate the work of famous artists</p> <p>Key Vocabulary: Create, fill, save,</p> <p>Suggested activities: 2Paint (booklet) iPad paint tools</p> <p>Alternatives: Twinkl Y2 Computer Art Unit</p>	<p>Main Focus: PM Unit 2.2 Online Safety</p> <p>Key Skills: <i>Online safety, Digital Literacy</i> <i>By the end of this unit I will be able to:</i> *To use the search tool to share and communicate information *Use 2Email *Understand digital footprint *Know how to keep personal data secure</p> <p>Key Vocabulary: Search, email, refine, technology, share, <i>digital footprint, personal data, secure</i></p> <p>Suggested activities: <i>Webster's email story</i> 2Respond/2email Displayboards</p> <p>Alternatives: Twinkl Y2 Online Safety unit</p>	<p>Main Focus: PM Unit 2.7 Making Music</p> <p>Key Skills: <i>Digital Literacy</i> <i>By the end of this unit I will be able to:</i> *To create a musical sequence *Add and upload sounds</p> <p>Key Vocabulary: Digital music, create, speed up, slow down, volume, upload, record</p> <p>Suggested activities: 2Sequence Garageband</p> <p>Alternatives:</p>

Spring Term 2:

Spring Term 2

2 weeks (cont)

3 weeks

5 weeks

Main Focus:
PM Unit 2.6
Creating Pictures
Online Safety

Main Focus:
PM Unit 1.8
Spreadsheets

Main Focus:
PM Unit 1.6
Animated Story Books
Online Safety

Key Skills:

Digital Literacy

By the end of this unit I will be able to:

***Use the 2Paint a Picture function to recreate the work of famous artists**

Key Skills:

Digital Literacy

Understanding Technology

By the end of this unit I will be able to:

***Know what a spreadsheet is**

***Add images**

***Use 'speak' and 'count' tools**

Key Skills:

Digital Literacy

By the end of this unit I will be able to:

***To create an e-book**

***Open and save previously created work**

***Add sound and change backgrounds to a story**

Key Vocabulary:

Create, fill, save,

Key Vocabulary:

Navigate, column, row, save, open, image toolbox, clipart, cells, drag, lock, value, count, speak, data

Key Vocabulary:

e-books, animation, voice/sound recording, copy & paste, share

Suggested activities:

Chicken Clicking story

2Paint (booklet)

iPad paint tools

Suggested activities:

2Calculate

Suggested activities:

Once Upon a Time Online story

2Create a story

Alternatives:

Twinkl Y1 - Painting Unit

Alternatives:

Twinkl Y2 Presenting Skills Unit

Alternatives:

	Cycle A	Cycle B	
	Summer Term 1:	Summer Term 1	
	6 weeks	4 weeks	2 weeks
Year 1/2	<p>Main Focus: PM Unit 1.7 Coding <i>Online Safety</i></p> <p><u>Key Skills:</u> <i>Programming</i></p> <ul style="list-style-type: none"> *Understand what coding means *Design a background *Move and add characters *Use 'when' code *Use Collision Detection *Add sound <p><u>Key Vocabulary:</u> Algorithm, program, block of code,</p> <p><u>Suggested activities:</u> <i>Chicken Clicking story</i> 2 Code Beebots</p> <p><u>Alternatives:</u> Twinkl Y1 Programming Toys Unit</p>	<p>Main Focus: PM Unit 2.3 Spreadsheets <i>Online Safety</i></p> <p><u>Key Skills:</u> <i>Digital Literacy</i> <i>Understanding Technology</i></p> <p><i>By the end of this unit I will be able to:</i></p> <ul style="list-style-type: none"> *Review previous use of spreadsheets *Use copy and paste tools *Calculate totals *Create a table of data <p><u>Key Vocabulary:</u> Navigate, column, row, save, open, image toolbox, clipart, cells, drag, lock, value, count, speak, data, pictogram,</p> <p><u>Suggested activities:</u> <i>Webster's Friend story</i> 2calculate</p> <p><u>Alternatives:</u></p>	<p>Main Focus: PM Unit 1.3 Pictograms</p> <p><u>Key Skills:</u> <i>Digital Literacy</i> <i>Understanding Technology</i></p> <p><u>Key Vocabulary:</u> Data, pictogram, record, represent</p> <p><i>By the end of this unit I will be able to:</i></p> <ul style="list-style-type: none"> *Understand data in picture format *Create a class pictogram *Record results <p><u>Suggested activities:</u> 2 connect 2 count</p> <p><u>Alternatives:</u></p>

Summer Term 2:	Summer Term 2
5 weeks	6 weeks
<p>Main Focus: PM Unit 2.1 Coding Online Safety</p> <p><u>Key Skills:</u> Programming <i>By the end of this unit I will be able to:</i> *Understand what an algorithm is *Use repeat and timer commands *Debug simple programs *Predict using knowledge of objects' limitations *Create a complex program</p> <p><u>Key Vocabulary:</u> Algorithm, program, debug, block of code, repeat, command, predict,</p> <p><u>Suggested activities:</u></p> <p>2Code iPad Daisy the Dragon, Beebots</p> <p><u>Alternatives:</u></p>	<p>Main Focus: PM Unit 2.8 Presenting Ideas Online Safety</p> <p><u>Key Skills:</u> Digital literacy <i>By the end of this unit I will be able to:</i> *Know that stories can be presented in different ways *Make a quiz *Make a fact file *Collect, store and present data</p> <p><u>Key Vocabulary:</u> Present, mind map, e-bok, digital content, extract, publisher, insert, data, tables, software, manipulate, collect, store , organise,</p> <p><u>Suggested activities:</u></p> <p>Twinkl Y2 Unit presentation skills Powerpoint 2Connect 2Create a Story 2Quiz Writing templates</p> <p><u>Alternatives:</u></p>

	Cycle A	Cycle B
	Autumn Term 1:	Autumn Term 1
	6 weeks with an E-safety element to be added each half term	6 weeks
Year 3/4	<p>Main Focus: Coding* (Combined Y3&4 Unit) See below for PM unit breakdown</p> <p><u>Key Skills:</u> Programming (see below)</p> <p><u>Key Vocabulary:</u> Algorithm, simulate, physical action, debugging, variables, decomposition, abstraction,</p> <p><u>Suggested activities:</u> 2Code</p>	<p>Main Focus: Coding*(Combined Y3&4 Unit) See below for PM unit breakdown</p> <p><u>Key Skills:</u> Programming (see below)</p> <p><u>Key Vocabulary:</u> Algorithm, If, else, repetition, repeat until, value, variable, object, action, output, control, event, variable, command,</p> <p><u>Suggested activities:</u> 2 Code</p>
	<p>*Key skills lesson breakdown: <i>By the end of this unit I will be able to:</i> Review - Y3 lesson 1 Simulate a physical system- Y3 lesson 2 Make a timer - Y4 lesson 4 Debug - Y3 lesson 6 Make a control simulation - Y4 lesson 5 Decompose and Abstract - Y4 lesson 6</p>	<p>*Key skills lesson breakdown: <i>By the end of this unit I will be able to:</i> Review - Y4 lesson 1 Introduce 'if' statements - Y3 lesson 4 If/else' statements - Y4 lesson 2 Repetition - Y3 lesson 5 Repeat until - Y4 lesson 3 Variables- Y3 lesson 4</p>

Autumn Term 2:		Autumn Term 2
3 weeks	3 weeks	6 weeks
<p>Main Focus: PM Unit 3.2 Online Safety</p> <p><u>Key Skills:</u> Programming Online safety</p> <p><i>By the end of this unit I will be able to:</i></p> <ul style="list-style-type: none"> *know how to create and protect a password *know that not all information on websites is true *know the meaning of age restrictions and PEGI *Know how to find help <p><u>Key Vocabulary:</u> Cyberbullying, accurate, trustworthy, critically think, 'spoof', screenshot, recording</p> <p><u>Suggested activities:</u> 2Connect 2Blog Writing Templates Displayboards</p>	<p>Main Focus: PM Unit 3.2 Spreadsheets</p> <p><u>Key Skills:</u> Digital literacy Understanding Technology</p> <p><i>By the end of this unit I will be able to:</i></p> <ul style="list-style-type: none"> *create pie charts and bar graphs *use more than/less than/ equals tools *use co-ordinates <p><u>Key Vocabulary:</u> Data, spreadsheet, 'more than' 'less than' 'equals' cell location, column, row, notation, co-ordinates</p> <p><u>Suggested activities:</u> 2Calculate</p>	<p>Main Focus: PM Unit 4.3 Spreadsheets</p> <p><u>Key Skills:</u> Digital literacy Understanding Technology</p> <p><i>By the end of this unit I will be able to:</i></p> <ul style="list-style-type: none"> *use the formula wizard to add formulae and explore formatting skills *use the timer and spin buttons *create a line graph *use a spreadsheet for budgeting *allocate values to images (place value) <p><u>Key Vocabulary:</u> formatting, formula, calculate, cell, timer, random button, spin, data, line graph, value</p> <p><u>Suggested activities:</u> 2Calculate</p>

Year 3/4	Cycle A		Cycle B	
	Spring Term 1:		Spring Term 1	
	4 weeks	2 weeks (to be continued) <i>World Safer Internet Day</i>	4 weeks	2 weeks
	<p>Main Focus: PM Unit 3.4 Touch Typing</p> <p><u>Key Skills:</u> Digital literacy By the end of this unit I will be able to: *understand typing terminology *use 2 hands to type on the keyboard *type words using the correct fingering *type with more speed and efficiency</p> <p><u>Key Vocabulary:</u> posture, top row, home row, bottom row, space bar, speed, accuracy</p> <p><u>Suggested activities:</u> 2Type</p>	<p>Main Focus: PM Unit 3.5 Email</p> <p><u>Key Skills:</u> Digital literacy Understanding Technology By the end of this unit I will be able to: *open and respond to an email *use the address book *email safely *add an attachment to an email *read and reply to email communications</p> <p><u>Key Vocabulary:</u> Communicate, open, respond, reply, e-safety, attach, CC,</p> <p><u>Suggested activities:</u> 2Email 2Connect 2DIY</p>	<p>Main Focus: PM Unit 4.5 Logo</p> <p><u>Key Skills:</u> Programming By the end of this unit I will be able to: *understand the language of Logo *input simple instructions *create letters *use the repeat function *use the build feature</p> <p><u>Key Vocabulary:</u> instruction, predict, create, efficient,</p> <p><u>Suggested activities:</u> Logo</p>	<p>Main Focus: PM Unit 4.8 Hardware Investigators</p> <p><u>Key Skills:</u> Understanding Technology By the end of this unit I will be able to: *understand the different parts that make up a computer</p> <p><u>Key Vocabulary:</u> Desktop, function</p> <p><u>Suggested activities:</u> 2Quiz 2Connect Writing Templates</p>

Spring Term 2:		Spring Term 2	
4 weeks (cont)	2 weeks	4 weeks	2 weeks
<p>Main Focus: PM Unit 3.5 Email</p> <p><u>Key Skills:</u> Digital literacy Understanding Technology By the end of this unit I will be able to: *open and respond to an email *use the address book *email safely *add an attachment to an email *read and reply to email communications</p> <p><u>Key Vocabulary:</u> Communicate, open, respond, reply, e-safety, attach, CC,</p> <p><u>Suggested activities:</u> 2Email 2Connect 2DIY</p>	<p>Main Focus: PM Unit 3.8 Graphing</p> <p><u>Key Skills:</u> Digital literacy By the end of this unit I will be able to: *enter data into a graph *solve an investigation *present results in a graph</p> <p><u>Key Vocabulary:</u> Fields, data, produce, share, present, graphical formats</p> <p><u>Suggested activities:</u> 2Graph 2Blog Writing Templates</p>	<p>Main Focus: PM Unit 4.2 Online Safety</p> <p><u>Key Skills:</u> Programming Online safety By the end of this unit I will be able to: *know how to protect myself from identity theft *understand how I leave a digital footprint *identify risks and benefits of installing software and apps *know how to behave appropriately when collaborating on online projects *understand the positive and negative influences of technology on health</p> <p><u>Key Vocabulary:</u> Identity theft, plagiarism, reliable, collaborate,</p> <p><u>Suggested activities:</u> 2Connect 2Publish +</p>	<p>Main Focus: PM Unit 4.7 Effective Search</p> <p><u>Key Skills:</u> Digital literacy Understanding Technology By the end of this unit I will be able to: *locate information on a search results page *search effectively for information *decide if an information source is true and reliable</p> <p><u>Key Vocabulary:</u> credibility, search,</p> <p><u>Suggested activities:</u> 2Quiz 2 2Connect</p>

	Cycle A	Cycle B
	Summer Term 1:	Summer Term 1
	4 weeks	5 weeks
Year 3/4	<p>Main Focus: PM Unit 3.6 Branching Databases</p> <p><u>Key Skills:</u> Digital literacy Understanding Technology <i>By the end of this unit I will be able to:</i> *complete a branching database *create a branching database</p> <p><u>Key Vocabulary:</u> topic, images, branching database, data</p> <p><u>Suggested activities:</u> 2Question</p>	<p>Main Focus: PM Unit 4.4 Writing for different audiences</p> <p><u>Key Skills:</u> Digital literacy <i>By the end of this unit I will be able to:</i> *know how font sizes and style affects the impact of a text *produce a news report *write for a campaign</p> <p><u>Key Vocabulary:</u> font, text, formatting, purpose, audience, journalist, mind-map,</p> <p><u>Suggested activities:</u> Writing templates 2Stimulate 2Connect - mindmap 2Publish +</p>

Summer Term 2:		Summer Term 2	
3 weeks		3 weeks	
<p>Main Focus: PM Unit 3.7 Simulations</p> <p><u>Key Skills:</u> Digital literacy Understanding Technology <i>By the end of this unit I will be able to:</i> *analyse and evaluate a simulation</p> <p><u>Key Vocabulary:</u> simulations, analyse, evaluate,</p> <p><u>Suggested activities:</u> 2Simulate 2Publish</p>	<p>End of term project - consolidation of key skills taught</p>	<p>Main Focus: PM Unit 4.6 Animations</p> <p><u>Key Skills:</u> Digital literacy Understanding Technology <i>By the end of this unit I will be able to:</i> *explain how animations (hand drawn and computer generated) are made *add backgrounds and sounds to an animation *create and share an animation</p> <p><u>Key Vocabulary:</u> Animation, frames, background, stop motion animation,</p> <p><u>Suggested activities:</u> 2Animate</p>	<p>End of term project - consolidation of key skills taught</p>

Year 5/6	Cycle A	Cycle B
	Autumn Term 1:	Autumn Term 1
	6 weeks	6 weeks
	<p>Main Focus: Coding PM Unit 5.1</p> <p><u>Key Skills:</u> Programming</p> <p><i>By the end of this unit I will be able to:</i></p> <ul style="list-style-type: none"> *use a sketch or storyboard to represent a program design and algorithm *create a program using my design *explain what a variable is *set and change variable values *create a game with a timer and a score pad *create loops using timer and if/else statements * fully code a program <p><u>Key Vocabulary:</u> Algorithm, simulate, physical action, variables, values, decomposition, abstraction, launch command,</p> <p><u>Suggested activities:</u> 2Code</p>	<p>Main Focus: Coding PM Unit 6.1</p> <p><u>Key Skills:</u> Programming</p> <p><i>By the end of this unit I will be able to:</i></p> <ul style="list-style-type: none"> *anticipate the variables required before beginning to code *explain the functions used, how to move code and how code was organised *code programs that take text input *attribute variables *follow a flowchart to create and debug code *create flowcharts *use text adventure to create an adventure game <p><u>Key Vocabulary:</u> Variables, anticipate, debug, functions, text input, attribute variables, algorithms, text based,</p> <p><u>Suggested activities:</u> 2Code</p>

Autumn Term 2:	Autumn Term 2
5 weeks	5 weeks
<p>Main Focus: PM Unit 5.3 Spreadsheets</p> <p><u>Key Skills:</u> Digital literacy <i>By the end of this unit I will be able to:</i> *create a formula that can be applied to different contexts *use the count tool *use a spread sheet to work out area and perimeter *create formulae that use different variables *use a spreadsheet to plan an event</p> <p><u>Key Vocabulary:</u> Formula, formulae, count tool, how many tool, variables,</p> <p><u>Suggested activities:</u> 2Calculate Excel</p>	<p>Main Focus: PM Unit 6.3 Spreadsheets</p> <p><u>Key Skills:</u> Digital literacy <i>By the end of this unit I will be able to:</i> *create a spreadsheet to answer a mathematical question *copy and paste shortcuts *use the formula wizard *use a spreadsheet to come up with solutions to a problem *make practical use of a spreadsheet</p> <p><u>Key Vocabulary:</u> Shortcuts, formula wizard, copy and paste shortcuts, count tool</p> <p><u>Suggested activities:</u> 2Calculate Excel</p>

Year 5/6	Cycle A		Cycle B	
	Spring Term 1:		Spring Term 1	
	3 weeks	3 weeks (of 5) <i>World Safer Internet Day</i>	3 weeks	3 weeks (of 5)
	<p>Main Focus: PM Unit 5.2 <i>Online Safety</i></p> <p><u>Key Skills:</u> <i>Online safety</i></p> <p><i>By the end of this unit I will be able to:</i></p> <ul style="list-style-type: none"> *explain about the SMART CREW and SMART rules *know where to get help if something upsetting happens online *know what is appropriate to share online *know what is a good password *understand implications of altering an image *know how to reference sources *check the reliability of sources <p><u>Key Vocabulary:</u> SMART CREW, SMART rules, Critically evaluate, reliability, image manipulation, cite, sources,</p> <p><u>Suggested activities:</u> 2Publish + Writing Templates Display boards 2Connect</p>	<p>Main Focus: PM Unit 5.5 <i>Game Creator</i></p> <p><u>Key Skills:</u> <i>Digital literacy</i> <i>Understanding Technology</i></p> <p><i>By the end of this unit I will be able to:</i></p> <ul style="list-style-type: none"> *review and analyse a computer game *design a quest game, including the setting and characters *include animation and sound in a game *evaluate your own, and your peers' games <p><u>Key Vocabulary:</u> Review, analyse, upload, playability, evaluate</p> <p><u>Suggested activities:</u> 2DIY 3D writing Templates 2Blog</p>	<p>Main Focus: PM unit 6.2 <i>Online Safety</i></p> <p><u>Key Skills:</u> <i>Online safety</i></p> <p><i>By the end of this unit I will be able to:</i></p> <ul style="list-style-type: none"> *identify benefits and risks of devices accessing location *identify secure sites *understand the consequence of promoting inappropriate content *understand the need for a balance of screen time and other activities <p><u>Key Vocabulary:</u> Secure websites, phishing, spoof, scam, inappropriate, screen time, privacy, https, padlock icon, digital footprint, online behaviour,</p> <p><u>Suggested activities:</u> 2DIY 3D 2DIY 2Code 2Blog</p>	<p>Main Focus: PM Unit 6.4 <i>Blogging</i></p> <p><u>Key Skills:</u> <i>Digital literacy</i></p> <p><i>By the end of this unit I will be able to:</i></p> <ul style="list-style-type: none"> *understand the key features of a blog *create a blog with a specific purpose *understand how information is presented impacts on the audience *understand the approval process, and links to e-safety *assess the effectiveness and impact of a blog <p><u>Key Vocabulary:</u> Collaborative, informative text, impact, update, interest, engagement, approval,</p> <p><u>Suggested activities:</u> 2Blog</p>

Spring Term 2:	Spring Term 2
2 weeks cont...	2 weeks cont...
<p>Main Focus: PM Unit 5.5 Game Creator Understanding Technology</p> <p><u>Key Skills:</u> Digital literacy <i>By the end of this unit I will be able to:</i> *review and analyse a computer game *design a quest game, including the setting and characters *include animation and sound in a game *evaluate your own, and your peers' games</p> <p><u>Key Vocabulary:</u> Review, analyse, upload, playability, evaluate</p> <p><u>Suggested activities:</u> 2DIY 3D writing Templates 2Blog</p>	<p>Main Focus: PM Unit 6.4 Blogging</p> <p><u>Key Skills:</u> Digital literacy <i>By the end of this unit I will be able to:</i> *understand the key features of a blog *create a blog with a specific purpose *understand how information is presented impacts on the audience *understand the approval process, and links to e-safety *assess the effectiveness and impact of a blog</p> <p><u>Key Vocabulary:</u> Collaborative, informative text, impact, update, interest, engagement, approval,</p> <p><u>Suggested activities:</u> 2Blog</p>

Year 5/6	Cycle A		Cycle B	
	Summer Term 1		Summer Term 1	
	4 weeks	2 weeks (out of 4)	5 weeks	2 weeks (of 3)
	<p>Main Focus: PM Unit 5.4 Databases</p> <p><u>Key Skills:</u> Digital literacy Understanding Technology By the end of this unit I will be able to: *search effectively for information on a database *contribute to a database *create an avatar *create my own database, *add records and field information</p> <p><u>Key Vocabulary:</u> Database, avatar, database field, field information</p> <p><u>Suggested activities:</u> 2Investigate Avatar Creator</p>	<p>Main Focus: PM Unit 5.6 3D Modelling</p> <p><u>Key Skills:</u> Digital literacy By the end of this unit I will be able to: *explore different viewpoints when designing *adapt designs *edit designs *refine a design ready for printing *create a 3D model *explored the possibilities of 3D printing*</p> <p><u>Key Vocabulary:</u> 2D, 3D, explore, design, adapt, refine, print, net,</p> <p><u>Suggested activities:</u> 2Design and Make Writing Templates *3D printers available to hire from ICT service</p>	<p>Main Focus: PM Unit 6.5 Text Adventures</p> <p><u>Key Skills:</u> Digital literacy Programming By the end of this unit I will be able to: *plan a story adventure *create, test and debug a story *contrast map and sequential story-based games *create a text-based adventure *use coding skills to code your game *debug when necessary</p> <p><u>Key Vocabulary:</u> Text adventure, create, test, debug, design, if/else statements, repetition,</p> <p><u>Suggested activities:</u> 2Code 2Connect Writing Templates</p>	<p>Main Focus: PM Unit 6.6 Networks</p> <p><u>Key Skills:</u> Digital literacy Understanding Technology By the end of this unit I will be able to: *know the difference between the World Wide Web and the internet *know about our/your new school network *talk about who Tim Berners-Lee is *talk about major changes in technology over time</p> <p><u>Key Vocabulary:</u> World Wide Web, internet, LAN, WAN,</p> <p><u>Suggested activities:</u> 2Connect Writing Templates Main Focus:</p>

Summer Term 2:		Summer Term 2	
2 weeks (cont)	4 weeks	1 week (cont)	5 weeks
<p>Main Focus: PM Unit 5.6 3D Modelling</p> <p><u>Key Skills:</u> Digital literacy <i>By the end of this unit I will be able to:</i> *explore different viewpoints when designing *adapt designs *edit designs *refine a design ready for printing *create a 3D model *explored the possibilities of 3D printing*</p> <p><u>Key Vocabulary:</u> 2D, 3D, explore, design, adapt, refine, print, net,</p> <p><u>Suggested activities:</u> 2Design and Make Writing Templates *3D printers available to hire from ICT service</p>	<p>Main Focus: PM Unit 5.7 Concept maps</p> <p><u>Key Skills:</u> Digital literacy <i>By the end of this unit I will be able to:</i> *make connections between thoughts and ideas *use the correct vocabulary *create a concept map *use a concept map to retell a story or information *present a collaborative concept map to an audience</p> <p><u>Key Vocabulary:</u> Visual representation Concept map, stage, nodes, connections, presentation mode</p> <p><u>Suggested activities:</u> 2Connect</p>	<p>PM Unit 6.6 Networks</p> <p><u>Key Skills:</u> Digital literacy Understanding Technology <i>By the end of this unit I will be able to:</i> *know the difference between the World Wide Web and the internet *know about our/your new school network *talk about who Tim Berners-Lee is *talk about major changes in technology over time</p> <p><u>Key Vocabulary:</u> World Wide Web, internet, LAN, WAN,</p> <p><u>Suggested activities:</u> 2Connect Writing Templates Main Focus:</p>	<p>Main Focus: PM Unit 6.7 Quizzing</p> <p><u>Key Skills:</u> Digital literacy <i>By the end of this unit I will be able to:</i> *create a quiz *use different question types *set a quiz on different curriculum areas *set a quiz from searching a database *make a quiz to test your teachers or parents</p> <p><u>Key Vocabulary:</u> Ability level, collaborate, respond, database, curriculum</p> <p><u>Suggested activities:</u> 2DIY 2Quiz Text Toolkit 2Investigate (database)</p>