



YEAR 2 COMPUTING PROGRESSION IN SKILLS AND KNOWLEDGE STATUTORY REQUIREMENTS



AUTUMN N.C Objectives in bold	SPRING N.C Objectives in bold	SUMMER N.C Objectives in bold
<p>AUTUMN 1: CREATE AND DEBUG PROGRAMS <i>Coding and decoding (Unit 2.1 Purple Mash)</i></p> <ul style="list-style-type: none">-To understand what an algorithm is.-To design algorithms and then code them.-To compare different object types.-To use the repeat command.-To use the timer command.-To know what debugging is and debug programs. <p>AUTUMN 2: <u>USE TECHNOLOGY SAFELY AND RESPECTFULLY, KEEPING PERSONAL INFORMATION PRIVATE; IDENTIFY WHERE TO GO FOR HELP AND SUPPORT WHEN THEY HAVE CONCERNS ABOUT CONTENT OR CONTACT ON THE INTERNET OR OTHER ONLINE TECHNOLOGIES.</u> <i>Online Safety (Unit 2.2 Purple Mash)</i></p> <ul style="list-style-type: none">-To know how to refine searches using the Search tool.-To use digital technology to share work on Purple Mash to communicate and connect with others locally.-To have some knowledge and understanding about sharing more globally on the Internet.-To introduce Email as a communication tool using 2Respond simulations.-To understand how we should talk to others in an online situation.-To open and send simple online communications in the form of email.-To understand that information put online leaves a digital footprint or trail.	<p>SPRING 1: SPREAD SHEETS</p> <ul style="list-style-type: none">- To review the work done in 2Calculate in year 1.- To revise spreadsheet related vocabulary.- To use some 2Calculate tools that were introduced in year 1- To use copying, cutting and pasting shortcuts in 2Calculate.- To use 2Calculate totalling tools.- To use 2Calculate to solve a simple puzzle- To explore the capabilities of a spreadsheet in adding up coins to match the prices of objects- To add and edit data in a table layout.- To use the data to manually create a block graph. <p>SPRING 2: <u>USE TECHNOLOGY PURPOSEFULLY TO CREATE, ORGANISE, STORE, MANIPULATE AND RETRIEVE DIGITAL CONTENT</u> <i>Effective Searching (Unit 2.5 Purple Mash)</i></p> <ul style="list-style-type: none">-To understand the terminology associated with searching.-To gain a better understanding of searching on the Internet.-To create a leaflet to help someone search for information on the Internet. <p><i>Creating Pictures (Unit 2.6 Purple Mash)</i></p> <ul style="list-style-type: none">-To learn the functions of the 2Paint a Picture tool.-To learn about and recreate the Impressionist style of art (Monet, Degas, Renoir).-To recreate Pointillist art and look at the work of pointillist artists such as Seurat.-To learn about the work of Piet Mondrian and recreate the style using the lines template.	<p>SUMMER: <u>USE TECHNOLOGY PURPOSEFULLY TO CREATE, ORGANISE, STORE, MANIPULATE AND RETRIEVE DIGITAL CONTENT</u> <i>Making Music (Unit 2.7 Purple Mash)</i></p> <ul style="list-style-type: none">-To make music digitally using 2Sequence.-To explore, edit and combine sounds using 2Sequence.-To edit and refine composed music.-To think about how music can be used to express feelings and create tunes which depict feelings.-To upload a sound from a bank of sounds into the Sounds section.-To record and upload environmental sounds into Purple Mash.-To use these sounds to create tunes in 2Sequence



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-To identify the steps that can be taken to keep personal data and hardware secure.
UNDERSTAND WHAT ALGORITHMS ARE; HOW THEY ARE IMPLEMENTED AS PROGRAMS ON DIGITAL DEVICES; THAT PROGRAMS EXECUTE BY FOLLOWING PRECISE AND UNAMBIGUOUS INSTRUCTIONS
Spreadsheets (Unit 2.3 Purple Mash)
-To use 2Calculate image, lock, move cell, speak and count tools to make a counting machine.
-To learn how to copy and paste in 2Calculate.
-To use the totalling tools.
-To use a spreadsheet for money calculations.
-To use the 2Calculate equals tool to check calculations.
-To use 2Calculate to collect data and produce a graph.

-To learn about the work of William Morris and recreate the style using the patterns template.

KNOWLEDGE TO BE LEARNED BY THE END OF EACH UNIT (WHAT DO WE WANT THE CHILDREN TO KNOW AND REMEMBER?)

AUTUMN TERM	SPRING TERM	SUMMER TERM
<ul style="list-style-type: none">● Explain what the word <i>algorithm</i> means● Explain what the word <i>debugging</i> means● Explain what an <i>email</i> is● Explain what a <i>digital footprint</i> is	<ul style="list-style-type: none">● Know what the save, print, open and new icons are and show somebody else.● Know what impressionist art is● Know what pointillist art is● Know who Seurat, Mondrian and Morris were	<ul style="list-style-type: none">● Know what the words <i>edit</i>, <i>combine</i>, <i>compose</i> and <i>refine</i> mean

Children working at below Age Related Expectations in COMPUTING at the end of Year 2:



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