

# Computing Scheme of Work Overview Year 6

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# Introduction

This document contains an overview of the units included in the Purple Mash Computing Scheme of Work for Year 6.

For detailed lesson plans and other information, see the documents for the individual units themselves.

Most lessons assume that children are logged onto Purple Mash with their own individual usernames and passwords, so their work will be saved in their own folders automatically and can be easily reviewed and assessed by the class teacher. If children have not used and logged onto Purple Mash before then they will need to spend some time before starting these lessons, learning how to do this. Children can be supported by having their printed logon cards (produced using <u>Create and Manage Users</u>) to hand.

Lesson plans also make use of the facility within Purple Mash to set activities for pupils which they can then complete and hand-in online (2Dos). This enables you to assess their work easily as well as distribute resources to all pupils. If children have not opened 2Dos before then they will need more detailed instructions about how to do this. A teacher's guide to 2Dos can be found in the teacher's section: <u>2Dos Guide</u>.

If you are currently using a single login per class or group and would like to set up individual logins yourself, then please see our guide to doing so at <u>Create and Mange Users</u>. Alternatively, please contact support at <u>support@2simple.com</u> or 0208 203 1781.

To force links within this document to open in a new tab, right-click on the link then select 'Open link in new tab'.

### Linking the lessons to curriculum objectives

At the end of this document you will find a breakdown showing how the units relate to the curricula of England, Wales, Northern Ireland and Scotland.

For England and Wales, guidance is also given about assessing children against each objective using the scheme of Work lessons. This will follow for other countries in due course.



This information can be used in association with the Purple Mash Data Dashboard to make and record judgements about children's outcomes and demonstrate progress over time.

For more information about the Data Dashboard see the <u>Data Dashboard manual</u> or view the videos within the Data Dashboard tool.

### Differentiation

Where appropriate, guidance has been given on how to simplify tasks within lessons or challenge those who are ready for more stretching tasks.

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# Adapting and Refining the Scheme for your School

In an ideal world, pupils would be able to complete all units; this provides a wide range of different technological experiences using a variety of tools. The overlaps between units serve to deepen understanding of computational concepts and provide opportunities for pupils to apply and extend understanding and make links in their knowledge and capabilities.

However, as a school, you might decide that you need to refine the scheme for your own purposes and needs, meaning that not all units can be covered. This section Title to help you to do this whilst still being confident in curriculum coverage.

Firstly, use the colour coding to pick and choose units that cover the three strands of computing content to ensure a spread of complimentary opportunities and skills and to ensure curriculum coverage. Ideally, balance these strands over the whole school so that pupils cover and revisit all areas.

Secondly, look for opportunities to incorporate the computational skills into other subjects. Resources could be adapted or created to match your topics. Here are some suggestions:

Units that link to the maths curriculum:

- 6.9 Spreadsheets
- 6.3 Spreadsheets with 2Calculate

Units that could easily be topic linked; resources will need to be adapted to have a topic theme:

Any of the data handling units suggested in the maths section.

• 6.7 Quizzing

For lessons taught more discretely as computing such as Email (3.5) and Blogging (6.4), topic themes could still be used to double-up on objectives covered.

Online safety units can be part of RSE\PSHE lessons; there is a strong link between the learning objectives related to online safety with many of the online safety lessons aligning with RSE\PSHE objectives.

We have a stand-alone spreadsheet unit for Y6, this does not rely upon having completed the other spreadsheet units so might be another way to familiarise pupils with spreadsheets without including a spreadsheet unit in each year groups. In this case, we would advise including the use of spreadsheets and other data programs within maths where there is a curricular link.



# Year 6 Whole Year Overview

Predominant Area of Computing*				
	Computer		Information	Digital
	Science		Technology	Literacy

\*Most units will include aspects of all strands.

These units can be taught in any order to meet the needs of your wider curriculum.

mese units can be taught i	n any order to meet the hee	
Unit 6.1	Unit 6.2	Unit 6.3
Coding	Online safety	Spreadsheets
Number of lessons – 6	Number of lessons – 2	Number of lessons – 5
Number of lessons o		Number of lessons 5
Main Programs –	Programs - Various	Programs –
2Code		2Calculate
ZCOUE		zcalculate
Unit 6.4	Unit 6.5	Unit 6.6
Blogging	Text Adventures	Networks
biogging	Text Adventures	Networks
Number of lessons – 4	Number of lessons – 5	Number of lessons – 3
Programs – 2Blog	Programs – 2Code,	
	2Connect	
Unit 6.7	Unit 6.8	Unit 6.9
Quizzing	Understanding Binary	Spreadsheets (with
		Microsoft Excel or
Number of lessons – 6	Number of Lessons –	
		Microsoft Excel or
Programs – 2Quiz,	Number of Lessons –	Microsoft Excel or Google Sheets)
<b>Programs</b> – 2Quiz, 2DIY, Text Toolkit,	Number of Lessons – 4	Microsoft Excel or Google Sheets) Number of Lessons – 8
Programs – 2Quiz,	Number of Lessons –	Microsoft Excel or Google Sheets)
<b>Programs</b> – 2Quiz, 2DIY, Text Toolkit,	Number of Lessons – 4	Microsoft Excel or Google Sheets) Number of Lessons – 8 Main program – MS
<b>Programs</b> – 2Quiz, 2DIY, Text Toolkit,	Number of Lessons – 4	Microsoft Excel or Google Sheets) Number of Lessons – 8 Main program – MS Excel or Google
<b>Programs</b> – 2Quiz, 2DIY, Text Toolkit,	Number of Lessons – 4	Microsoft Excel or Google Sheets) Number of Lessons – 8 Main program – MS

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# Year 6 Unit Overview

### Unit 6.1 - Coding

Lesson	Title	Success Criteria
1 &2	Designing and Making a more Complex Program	<ul> <li>Children can plan a program which includes a timer and a score.</li> <li>Children can follow their plans to create a program.</li> <li>Children can debug when things do not run as expected.</li> </ul>
3	Using Functions	<ul> <li>Children can create a program that makes use of functions.</li> <li>Children can create a program that uses multiple functions with the code arranged in tabs.</li> <li>Children can explain how their code executes when their program is run.</li> </ul>
4	Flowcharts and Control Simulations	<ul> <li>Children can follow flowcharts to create and debug code.</li> <li>Children can create flowcharts for procedures.</li> <li>Children can be creative with the way they code to generate novel visual effects.</li> </ul>
5	User Input	<ul> <li>Children can code programs that take text input from the user and use this in the program.</li> <li>Children can attribute variables to user input.</li> <li>Children are aware of the need to code for all possibilities when using user input.</li> </ul>
6	Using Text-based Adventures	<ul> <li>Children can follow through the code of how a text adventure can be programmed in 2Code.</li> <li>Children can design their own text- based adventure game based on one they have played.</li> <li>Children can adapt an existing text adventure so it reflects their own ideas.</li> </ul>

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#### Unit 6.2 – Online Safety

Lesson	Title	Success Criteria
	Message in a Game	• Children have used the example game and further research to refresh their memories about risks online including sharing location, secure websites, spoof websites, phishing, and other email scams.
1		• Children have used the example game and further research to refresh their memories about the steps they can take to protect themselves including protecting their digital footprint, where to go for help, smart rules and security software.
2	Online Behaviour	<ul> <li>Children understand how what they share impacts upon themselves and upon others in the long-term.</li> <li>Children know about the consequences of promoting inappropriate content online and how to put a stop to such behaviour when they experience it or witness it as a bystander.</li> </ul>
		• <b>Extension:</b> Children' actions demonstrate that they also feel a responsibility to others when communicating and sharing content online.
3	Screen Time	<ul> <li>Children can take more informed ownership of the way that they choose to use their free time. They recognise a need to find a balance between being active and digital activities.</li> <li>Children can give reasons for limiting screen time.</li> <li>Children can talk about the positives and negative aspects of technology and balance these opposing views.</li> </ul>
		• <b>Extension:</b> Children have an internalised in- depth understanding of the risks and benefits of an online presence.

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#### Unit 6.3 - Spreadsheets

Lesson	Title	Success Criteria
1	Exploring Probability	<ul> <li>Children can create a spreadsheet to answer a mathematical question relating to probability.</li> <li>Children can take copy and paste shortcuts.</li> <li>Children can problem solve using the count tool.</li> </ul>
2	Creating a Computational Model	<ul> <li>Children can create a machine to help work out the price of different items in a sale.</li> <li>Children can use the formula wizard to create formulae.</li> <li>Children can use a spreadsheet to solve a problem.</li> </ul>
3	Use a Spreadsheet to Plan Pocket Money Spending	<ul> <li>Children can use a spreadsheet to model a real-life situation and come up with solutions.</li> <li>Children can make practical use of a spreadsheet to help plan actions.</li> </ul>
4 & 5	Planning a School Event	• Children can use a spreadsheet to model a real-life situation and come up with solutions that can be applied to real life.

### Unit 6.4 - Blogging

Lesson	Title	Success Criteria
1	What is a Blog?	<ul> <li>Children understand how a blog can be used as an informative text.</li> <li>Children understand the key features of a blog.</li> </ul>
2	Planning a Blog	• Children can work collaboratively to plan a blog.
3	Writing a Blog	<ul> <li>Children can create a blog or blog post with a specific purpose.</li> <li>Children understand that the way in which information is presented has an impact upon the audience.</li> </ul>
4	Sharing Posts and Commenting	<ul> <li>Children can post comments and blog posts to an existing class blog.</li> <li>Children understand the approval process that their posts go through and demonstrate an awareness of the issues</li> </ul>

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	<ul> <li>surrounding inappropriate posts and cyberbullying.</li> <li>Children can assess the effectiveness and impact of a blog.</li> <li>Children understand that content included in their blog carefully considers the end user.</li> </ul>
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#### Unit 6.5 - Text Adventures

Lesson	Title	Success Criteria
1	What Is a Text Adventure? Planning a Story Adventure	<ul> <li>Children can describe what a text adventure is.</li> <li>Children can map out a story-based text adventure.</li> <li>Children can use 2Connect to record their ideas.</li> <li>Extension: Children can turn a simple story with 2 or 3 levels of decision making into a logical design</li> </ul>
2	Making a Story-based Adventure Game	<ul> <li>Children can use the full functionality of 2Create a Story Adventure mode to create, test and debug using their plan.</li> <li>Children can split their adventure-game design into appropriate sections to facilitate creating it.</li> </ul>
3	Introducing Map-Based Text Adventures	<ul> <li>Children can map out an existing text adventure.</li> <li>Children can contrast a map-based game with a sequential story-based game.</li> <li>Extension: Children can make a comprehensive design map with a sequence of rooms including rooms in which the player needs to make a choice and collect items in a certain order to complete the game.</li> </ul>
4	Coding a Map-Based Text Adventure	<ul> <li>Children can create their own text-based adventure based upon a map.</li> <li>Children can use coding concepts of functions, two-way selection (if/else statements) and repetition in conjunction with one another to code their game.</li> <li>Children make logical attempts to debug their code when it does not work correctly.</li> </ul>

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#### Unit 6.6 – Networks

Lesson	Title	Success Criteria
1	The World Wide Web and the Internet	<ul> <li>Children know the difference between the World Wide Web and the internet.</li> <li>Extension: Children can provide examples of the difference between the World Wide Web and the Internet.</li> </ul>
2	Our School Network and Accessing the Internet	<ul> <li>Children know about their school network.</li> <li>Extension: Children can explain the differences between more than two network types such as: LAN, WAN, WLAN and SAN.</li> </ul>
3	Research	<ul> <li>Children have researched and found out about Tim Berners-Lee.</li> <li>Children have considered some of the major changes in technology which have taken place during their lifetime and the lifetime of their teacher/another adult.</li> </ul>

### Unit 6.7 – Quizzing

Lesson	Title	Success Criteria
1	Introducing 2DIY	<ul> <li>Children have used the 2DIY activities to create a picture-based quiz.</li> <li>Children have considered the audience's ability level and interests when setting the quiz.</li> <li>Children have shared their quiz and responded to feedback.</li> </ul>
2 & 3	Using 2Quiz	<ul> <li>Children understand the different question types within 2Quiz.</li> <li>Children have ideas about what sort of questions are best suited to the different question types.</li> <li>Children have used 2Quiz to make and share a science quiz (or another subject).</li> <li>Children have considered the audience's ability level and interests when setting the quiz.</li> <li>Children have shared their quiz with peers.</li> <li>Children have given and responded to feedback.</li> </ul>

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4	Exploring Grammar Quizzes	<ul> <li>Children have tried out the different types of Text Toolkit grammar games.</li> <li>Children have chosen an appropriate Text Toolkit tool to make their own grammar game(s).</li> </ul>
5	A Database Quiz	<ul> <li>Children have used a 2Investigate quiz to answer quiz questions.</li> <li>Children have designed their own quiz based on one of the 2Investigate example databases.</li> </ul>
6	Are you Smarter than a 10- (or 11-) Year-Old?	<ul> <li>Children have used their knowledge of quiz types to create a quiz show quiz based on a curriculum area.</li> </ul>

### **Unit 6.8– Understanding Binary**

Lesson	Title Examine how whole numbers are used as the basis for representing all types of data in digital systems through:	Success Criteria Children have an understanding of binary as a number system and its purpose and application in computing.
1	What is Binary?	<ul> <li>Children can explain how all data in a computer is saved in the computer memory in a binary format.</li> <li>Children can explain that binary uses only the integers 0 and 1.</li> <li>Children can relate 0 to an 'off' switch and 1 to and 'on' switch.</li> </ul>
2	Counting in Binary	<ul> <li>Children can count up from 0 in binary using visual aids if needed.</li> <li>Children can relate bits to computer storage.</li> </ul>
3	Converting from Decimal to Binary	<ul> <li>Children can convert numbers to binary using the division by two method.</li> <li>Children can check their own answers using the converter tool.</li> </ul>
4	Game States	• Children can make use of a variable set to 0 or 1 to control game states.

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### Unit 6.9- Spreadsheets (with Microsoft Excel)

Lesson	Title	Success Criteria
1	What is a Spreadsheet?	<ul> <li>Children know some uses of a spreadsheet tool.</li> <li>Children can navigate around a spreadsheet using cell references.</li> <li>Children can enter data into cells.</li> <li>Children understand new vocabulary relating to spreadsheets: cells, columns, rows, cell names, sheets, workbook.</li> </ul>
2	Basic Calculations	<ul> <li>Children can use a spreadsheet to carry out basic calculations including addition, subtraction, multiplication and division formulae.</li> <li>Children can use the series fill function.</li> <li>Children recognise how using formulae allows the data to change and the calculations to update automatically.</li> </ul>
3	Modelling	<ul> <li>Children can use a spreadsheet to model a situation.</li> <li>Children can use a spreadsheet to solve a problem.</li> <li>Children can use the SUM function</li> </ul>
4	Organising Data	<ul> <li>Children can use a variety of methods including flash fill, convert text to tables and splitting cells for organising and presenting their data in a spreadsheet.</li> <li>Children know what is meant by a delimiter.</li> <li>Children understand how to sort data.</li> </ul>
5	Advanced Formulae and Big Data	<ul> <li>Children know how to incorporate formulae for percentages, averages, max and min into their spreadsheets.</li> <li>Children gain familiarity with range notation in Excel.</li> <li>Children know some shortcuts that help to make data meaningful.</li> <li>Children begin to develop a critical eye when it comes to the conclusions that can be made from data.</li> </ul>

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6	Charts and Graphics	<ul> <li>Children know that there are ways to represent their data graphically and that Excel can make these calculations for them.</li> <li>Children gain an understanding of how a graphical representation can make data easier to interpret.</li> <li>Children make a chart using Excel recommendations.</li> <li>Children illustrate their data using sparklines and data bars.</li> </ul>
7	Using a Spreadsheet to Plan a Cake Sale	<ul> <li>Children can understand how a spreadsheet can be used to plan an event.</li> <li>Children understand the advantages of using formulae when data is subject to change</li> <li>Children have modelled a real-life situation using a spreadsheet.</li> </ul>
8	Using a Spreadsheet to Solve Problems	<ul> <li>To apply all new spreadsheet skills to solving problems and presenting data.</li> <li>To explore printing Excel sheets.</li> </ul>

### Unit 6.9- Spreadsheets (with Google sheets)

Lesson	Title	Success Criteria
1	What is a Spreadsheet?	<ul> <li>Children know some uses of a spreadsheet tool.</li> <li>Children can navigate around a spreadsheet using cell references.</li> <li>Children can enter data into cells.</li> <li>Children understand new vocabulary relating to spreadsheets: cells, columns, rows, cell names, sheets, workbook.</li> </ul>
2	Basic Calculations	<ul> <li>Children can use a spreadsheet to carry out basic calculations including addition, subtraction, multiplication and division formulae.</li> <li>Children can use the series fill function.</li> <li>Children recognise how using formulae allows the data to change and the calculations to update automatically.</li> </ul>
3	Modelling	• Children can use a spreadsheet to model a situation.

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		<ul> <li>Children can use a spreadsheet to solve a problem.</li> <li>Children can use the SUM function</li> </ul>
4	Organising Data	<ul> <li>Children can use a variety of methods including flash fill, convert text to tables and splitting cells for organising and presenting their data in a spreadsheet.</li> <li>Children know what is meant by a delimiter.</li> <li>Children understand how to sort data.</li> </ul>
5	<ul> <li>Children know how to incorporate for for percentages, averages, max and into their spreadsheets.</li> <li>Children gain familiarity with range matching</li> </ul>	
6	Charts and Graphics	<ul> <li>Children know that there are ways to represent their data graphically and that spreadsheets can make the process of representing data easier.</li> <li>Children gain an understanding of how a graphical representation can make data easier to interpret.</li> <li>Children make a variety of charts using Sheets.</li> <li>Children illustrate their data using sparklines and data bars.</li> </ul>
7	Using a Spreadsheet to Plan a Cake Sale	<ul> <li>Children can understand how a spreadsheet can be used to plan an event.</li> <li>Children understand the advantages of using formulae when data is subject to change.</li> <li>Children have modelled a real-life situation using a spreadsheet.</li> </ul>
8	Using a Spreadsheet to Solve Problems	<ul> <li>To apply all new spreadsheet skills to solving problems and presenting data.</li> <li>To explore printing spreadsheets.</li> </ul>

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# English National Curriculum Objectives (Key Stage 2)

National Curriculum Objective	Strand	Units
Design, write and debug programs that accomplish specific goals, including controlling or	Computer Science	6.1
simulating physical systems; solve problems by decomposing them into smaller parts.		6.5, 6.9
Use sequence, selection and repetition in programs; work with variables and various forms of input and output.	Computer Science	6.1
Use sequence, selection and repetition in programs; work with variables and various forms of input	Computer Science	6.5
and output.		
Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.	Computer Science	6.1 6.5, 6.9
	Commuter Colorad	
Understand computer networks, including the Internet; how they can provide multiple services, such as the World Wide Web; and the opportunities they offer for communication and	Computer Science	6.2
collaboration.		
Understand computer networks, including the Internet; how they can provide multiple services,	Computer Science	6.4
such as the World Wide Web; and the opportunities they offer for communication and		
collaboration.		
Understand computer networks, including the Internet; how they can provide multiple services,	Computer Science	6.6
such as the World Wide Web; and the opportunities they offer for communication and		
collaboration.		
Use search technologies effectively, appreciate how results are selected and ranked, and be	Information Technology	6.2
discerning in evaluating digital content.		
Select, use and combine a variety of software (including internet services) on a range of digital	Information Technology	6.1, 6.3
devices to design and create a range of programs, systems and content that accomplish given		6.4, 6.5
goals, including collecting, analysing, evaluating and presenting data and information.		6.7, 6.9
Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour;	Digital Literacy	6.2
identify a range of ways to report concerns about content and contact*.		6.4

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# Welsh Digital Competence Framework

``Strand	Element	<b>Objective</b> (Learners are able to):	Units Covered
Citizenship Note: The	Identity, image and reputation	Explain what metadata of a photograph can include, e.g. date, time and location	6.2
Scheme of Work contains a unit on Online		Identify benefits and risks of mobile devices broadcasting the location of the user/device, e.g. apps accessing location.	6.2
Safety in each year group. Taken as a		Identify secure sites by looking for privacy seals of approval, e.g. https, padlock icon.	6.2
whole, these units provide		Identify the benefits and risks of giving personal information and device access to different software.	6.2
pupils with the citizenship knowledge.		Understand how and why people use their information and online presence to create a virtual image of themselves as a user.	6.2
	Health and well-being	Understand the importance of balancing game and screen time with other parts of their lives.	6.2
	Digital rights, licensing and	Cite all sources when researching and explain the importance of this.	6.2 6.4
	ownership	Understand that photographs can be edited digitally and discuss rights and permissions associated with this.	6.2
	Online behaviour and cyberbullying	Demonstrate appropriate online behaviour and apply a range of strategies to protect themselves and others from possible online dangers, bullying and inappropriate behaviour.	6.2 6.4

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Interacting and	Communication	Exchange online communication, making use of a growing range of available features.	6.4
collaborating		Show an understanding of the advantages and disadvantages of different forms of communication and when it is appropriate to use each	6.2
	Collaboration	Work with others to create an online collaborative project for a specific purpose, sharing and appropriately setting permissions for other group members.	6.4
	Storing and sharing	Create and share hyperlinks to local, network and online files.	All Units Throughout Purple Mash most children can create a link by saving their work and then clicking on the share (world) button when their work is open. Children can then copy and save the link to a desired location.
		Password-protect a file	N/A Purple Mash is password protected. This can be contrasted to the need to password protect other files using different software.
Producing	Planning, sourcing and searching	Plan work independently before beginning the digital task	All Units Children will demonstrate strong independent planning skills before commencing any digital task. Their planning will be concise, apt to intended task, demonstrate deep awareness of audience/end users and state justification for planned ideas.
		Extend strategies for finding information; store previous searches and results for future use.	N/A This is not applicable to Purple Mash.



Creating	Use a range of software to produce and refine multimedia	6.1, 6.3
	components.	6.4, 6.5
		6.7, 6.9
	Select and combine a range of text, image, sound,	6.1, 6.3
	animation and video to produce an outcome for a selected	6.4, 6.5
	purpose. Use software tools to enhance the outcomes for specific audiences.	6.7, 6.9
Evaluating and	Explain reasons for layout and content of own work.	All units
improving		Most children can explain, with evidenced based
		reasons, as to why they have chosen a specific
		layout and content for their digital creations e.g.
		2Code programs (Unit 6.1), 2Calculate
		spreadsheets for solving a problem (Unit 6.3)
		and 2DIY for quiz creation (Unit 6.7). They
		evaluate their work using given criteria, reflecting
		on previous learning concepts and by making
		appropriate generalisations.
	Ensure output is appropriate for specific purpose.	All units
		Most children can use given criteria, prior
		learning and both collaborative and independent
		approaches to ensure their digital output is
		appropriate for specific purpose.
	Comment on reasons for layout and content.	All units
		Most children comment on the reasons for layout
		and content across a range of digital content
		using both electronic (2Blog, Preview and
		Correct, 2Email) and non-electronic.

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		Invite feedback/responses from others.	All units Most children use the range of software within Purple Mash and its features to invite feedback/responses from others, e.g. 2Blog, comment functionality for online-work, collaborative mode etc.
		Create groups and share work between them to allow	All units
		review of work.	Most children can use 2Blog, 2Email, shared
			folders and comment functionality to share work
			and review it.
Data and	Problem	Demonstrate how programs or processes run by following	6.1
Computational	solving and	a sequence of instructions exactly and in order	6.5, 6.9
Thinking	modelling	Demonstrate how an algorithm is useful for representing a	6.1
		solution to a problem through testing	6.5, 6.9
		Understand that changing instructions can affect or even	6.1
		terminate a process, e.g. moving instructions around in a	6.5, 6.9
		program could produce unexpected outcomes or cause the	
		program to fail altogether.	
	Data and	Construct, refine and interrogate data sets to test or	6.3
	information	support an investigation.	6.5, 6.9
	literacy		

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# Northern Ireland Levels of Progression and Desirable Features

	Objective	Units Covered
Explore Access, select, interpret and research information		6.2
	from safe and reliable sources.	
	Investigate, make predictions and solve problems	6.1, 6.3, 6.5, 6.9
	through interaction with digital tools.	
Express	Create, develop, present and publish ideas and	All units
	information responsibly using a range of digital	
	media and manipulate a range of assets to produce	
	multimedia.	
Exchange	Communicate safely and responsibly using a range	All units
	of contemporary digital methods and tools,	
	exchanging, sharing, collaborating and developing	
	ideas digitally.	
Evaluate	Talk about, review and make improvements to	All units
	work, reflecting on the process and outcome, and	
	consider the sources and resources used, including	
	safety, reliability and acceptability.	
Exhibit	Manage and present their stored work and	All Units
	showcase their learning across the curriculum,	
	using ICT safely and responsibly.	

Desirable Features	Units Covered
Desktop Publishing	6.4, 6.7
Film and Animation	
Interactive Design	6.1, 6.5, 6.7, 6.9
Managing data	6.3, 6.9
Music and Sound	
Online Communication	6.4 and use of 2dos and blogging as part of lessons
Presenting	6.7
Working with Images	6.7

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# Scottish Curriculum for Excellence (Second Level)

Technological developments in society	Units Covered
When exploring technologies in the world around me, I can use what I learn to help to design or improve my ideas or products.	6.5, 6.7, 6.9
I can investigate how an everyday product has changed	
over time to gain an awareness of the link between	
scientific and technological developments	
Having analysed how lifestyle can impact on the	
environment and Earth's resources, I can make	
suggestions about how to live in a more sustainable	
way.	
I can investigate the use and development of renewable	
and sustainable energy to gain an awareness of their	
growing importance in Scotland or beyond.	
ICT to enhance learning	Units Covered
As I extend and enhance my knowledge of features of	By covering a variety of units.
various types of software, including those which help	
find, organise, manage and access information, I can	
apply what I learn in different situations.	
I can access, retrieve and use information from electronic	By covering a variety of units.
sources to support, enrich or extend learning in different	
contexts.	
Throughout all my learning, I can use search facilities of	By covering a variety of units.
electronic sources to access and retrieve information,	
recognising the importance this has in my place of	
learning, at home and in the workplace.	
I explore and experiment with the features and functions	By covering a variety of units.
of computer technology and I can use what I learn to	
support and enhance my learning in different contexts.	
I can create, capture and manipulate sounds, text and	By covering a variety of units.
images to communicate experiences, ideas and	
information in creative and engaging ways.	
Computing science contexts for developing technological skills and knowledge	Units Covered
I am developing my knowledge and use of safe and	6.2
acceptable conduct as I use different technologies to	
interact and share experiences, ideas and information	
with others	

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Using appropriate software, I can work collaboratively to design an interesting and entertaining game which incorporates a form of control technology or interactive multimedia.	6.1, 6.5, 6.7, 6.9
Craft, design, engineering and graphics contexts for developing technological skills and knowledge	Units Covered
By applying my knowledge and skills of science and mathematics, I can engineer 3D objects which demonstrate strengthening, energy transfer and movement	
Through discovery and imagination, I can develop and use problem-solving strategies to construct models.	<ul><li>6.3 Modelling real-life situations</li><li>technologically</li><li>6.9</li></ul>
Having evaluated my work, I can adapt and improve, where appropriate, through trial and error or by using feedback.	All units
I can use drawing techniques, manually or electronically, to represent objects or ideas, enhancing them using effects such as light, shadow and textures.	
Throughout my learning, I experiment with the use of colour to develop an awareness of the effects and impacts it can have.	6.7

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