

Waterwells Computing Curriculum Themes

26/27

	<u>Aut 1</u> (8wks)	<u>Aut 2</u> (7wks)	<u>Spr 1</u> (6wks)	<u>Spr2</u> (5wks)	<u>Sum1</u> (6wks)	<u>Sum2</u> (7wks)
<u>Year</u> <u>1</u>	Unit 1 Systems and networks Technology around us Assessment: • Use a keyboard to type their name on a computer • Use a mouse in different ways - click, select and drag • Use the keyboard to edit text and delete letters • Demonstrate that they can use technology safely	Unit 2 Creating media Digital painting Assessment: • Choose appropriate paint tools to recreate a picture • Use shape and line tools for precision, changing the size, shape and colour • Use the undo button to correct mistakes	Unit 3 Programming A - Moving a Robot Bee-Bots Safer Internet day (10th Feb) Assessment: • Run a programme on a floor robot / device • Build a sequence of commands in steps from a given starting point • Combine commands in a program	Unit 6 Programming B Programming animations Scratch Jr Assessment: • Predict the outcome of a command • Build a sequence of commands in steps • Use the start command to initialise a program	Online Safety - Digital Futures Assessment: • I know to ask a grown-up before using the internet • I know not to share personal information • I know I should tell a trusted adult if I feel scared or unhappy online	Unit 5 Creating Media - Digital writing Google Docs - text/pics Assessment: • Recognise some keys and use them to enter text on to a computer/device including some basic punctuation • Add spaces between most words using a space bar • Use the backspace key to delete text only as far as the section to be edited • Use the toolbar to find and use the bold, italic, and underline

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Year 2	Unit 1 Computing Systems and networks IT around us Assessment: Summative assessment: https://teachcomputing.org/curriculum/key-stage-1/computing-systems-and-networks-it-around-us	Unit 2 Creating media Digital photography Assessment: - Take a photograph using a simple camera or device that has been set up in camera mode - Identify some of the reasons why a photograph may be good or bad - Use different tools to change how a photograph looks	Unit 3 Programming A - Robot Algorithms Bee-Bots Safer Internet day (10th Feb) Assessment: - Understand a series of instructions - Understand different algorithms by changing the sequence of commands - Predict what a sequence of commands will do	Unit 6 Programming B - Programming quizzes Scratch Jr Assessment: - Know that a sequence can be started using a variety of event blocks - Know the backgrounds can be changed through the programming blocks - Write and run a simple program with a start block, and an end block which changes the background	Online Safety - Digital Futures Assessment: - I understand that not everyone online is who they say they are - I should always tell a trusted adult if I see something online that makes me feel uncomfortable, scared, or worried. - I understand that information shared online can last for a long time and be seen by many people	Unit 4 Data & Information Pictograms Assessment: Summative assessment: https://teachcomputing.org/curriculum/key-stage-1/data-and-information-pictograms
Year 3	Unit 1 Systems and networks Assessment: Summative assessment: https://teachcomputing.org/curriculum/key-stage-2/computing-systems-and-networks-connecting-computers	Unit 3 Programming A Sequencing sounds: Scratch Assessment: - Choose relevant backdrops and costumes - Create an algorithm for each sprite	Unit 2 Creating media Stop Frame animation iMotion App or Stop Motion App Safer Internet day (10th Feb) Assessment: Movement is smooth	Unit 6 Programming B - Events and actions in programs Assessment: Summative assessment: https://teachcomputing.org/curriculum/key-stage-2/programming-b-events-and-actions	Online Safety: Digital Futures Be Internet Legends Assessment: I understand the importance of keeping personal information private	Unit 5 Creating Media Desktop Publishing Assessment: - Use placeholders appropriately to divide the page (magazine) - Add text and images - Format some of the text

		• Explain what sequence means and demonstrate it in an algorithm • Explain why the code is in that particular sequence	• The animation follows the storyboard • Make some improvements • Add some additional media		• I know I should not talk to strangers online • I know to seek help from a trusted adult if I feel uncomfortable or unsafe	• Choose an appropriate layout for a given scenario
Year 4	Unit 1 Computing Systems and Networks: The internet Assessment: Summative assessment: https://teachcomputing.org/curriculum/key-stage-2/computing-systems-and-networks-the-internet	Unit 3 Programming A Repetition in shapes: Scratch Assessment: Summative assessment: https://teachcomputing.org/curriculum/key-stage-2/programming-a-repetition-in-shapes	Unit 5 Creating Media Photo Editing Safer Internet day (10th Feb) Assessment: • Select images and combine them into one • Use a range of tools to create their image • Add relevant text to their publication	Unit 6 Programming B Repetition in games: Scratch Assessment: • Choose relevant sprites and backdrops for a game • Create an algorithm that includes show, hide, and move blocks • Create an algorithm that includes relevant sound blocks	Online Safety Digital Futures Be Internet Legends Assessment: • I understand how to protect personal information • I can communicate responsibly, and identify potential risks including recognising the dangers of interacting with strangers online • I understand the importance of strong passwords • I know how to report concerns to a trusted adult	Unit 2 Creating Media Audio Production https://wavacity.com/ Assessment: • Voice recordings are clear and relevant • Appropriate audio is imported • Use editing tools to remove some unneeded sounds or pauses • Additional audio is appropriately placed to play alongside the voice recording

Year 5	Unit 1 Computing Systems and Networks Systems and Searching Assessment: Summative assessment: https://teachcomputing.org/curriculum/key-stage-2/computing-systems-and-networks-systems-and-searching	Unit 2 Creating media Video Production Assessment: • Use appropriate filming techniques and capture the scenes from the storyboard • Captured audio is clear • Edit the video to join scenes, matching the storyboard	Unit 4 Data and Information Flat file databases Safer Internet day (10th Feb) Assessment: Summative assessment: https://teachcomputing.org/curriculum/key-stage-2/data-and-information-flat-file-databases	Unit 6 Programming B Selection in quizzes Scratch Assessment: Summative assessment: https://teachcomputing.org/curriculum/key-stage-2/programming-b-selection-in-quizzes	Online Safety Digital Futures Be Internet Legends Assessment: • I know the importance of not sharing personal information with strangers • I recognise that not everyone online is who they say they are. • I know how to identify and report inappropriate content or behaviour • I know how to protect my online privacy through strong passwords and privacy settings	Unit 5 Creating Media Introduction to Vector Graphics Google Drawings Assessment: • Use copy and paste to maintain consistency within the drawing • Manipulate an object's size, colour, and proportion to represent a chosen artefact • Purposefully position and rotate objects • Move objects to different layers to create a specific aspect of a drawing
Year 6	Unit 1 Computing Systems and Networks Communication and Collaboration Assessment: Summative assessment:	Unit 3 Programming A Variables in Games Scratch Assessment: Summative assessment:	Unit 5 Creating Media 3D Modelling Tinkercad Safer Internet day (10th Feb) Assessment:	Unit 4 Data and Information Introduction to Spreadsheets Assessment: Summative assessment:	Online Safety Digital Futures Be Internet Legends Assessment:	Transition to secondary - Introduction to Google Classroom

	https://teachcomputing.org/curriculum/key-stage-2/computing-systems-and-networks-communication	https://teachcomputing.org/curriculum/key-stage-2/programming-variables-in-games	• Position 3D objects to create a chosen artefact • Accurately resize objects • Create holes in objects • Use and combine variations of one 3D shape	https://teachcomputing.org/curriculum/key-stage-2/data-and-information-spreadsheets	• I'm aware of the potential dangers of sharing too much information online • I know the dangers of interacting with strangers, and encountering inappropriate content. • I know how to identify reliable information and respect others online	
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