# Federation of Snape and Thornton Watlass Primary Schools
# Computing Long Term Plan

*Computing Strands*

*Digital Literacy ● Information Technology ● Computer Science ●Online Safety*

| | Autumn Term 1 | Autumn Term 2 | Spring Term 1 | Spring Term 2 | Summer Term 1 | Summer Term 2 |
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| **EYFS Annual Cycle** | **Set up continuous provision in your classroom**<br>• Computing through continuous provision | **Programming 1**<br>• Using a computer<br>• What are the parts of a computer called? | **Computing systems and networks**<br>• All about instructions<br>• How do give and receive instructions? | **Computing systems and networks**<br>• Exploring hardware<br>• How do you operate a camera? | **Programming 2**<br>• Programming Bee-Bot<br>• How do you program am Beep-Bot? | **Data handling**<br>• Introduction to data<br>• What is data? |
| **Key Stage 1**<br><br>**Cycle A 2025-26** | **Computing systems and networks**<br>• Improving mouse skills<br>• What mouse can I control?<br>• Building on Exploring Hardware (R) | **Programming 1**<br>• Algorithms unplugged<br>• What can I do with an algorithm?<br>• Building on Using a Computer (R) | **Showcase Skills**<br>• Rocket to the moon<br>• How do the tools on a computer help me draw a picture?<br>• Showcase skills from previous learning | **Computing systems and networks 1**<br>• What is a computer?<br>• What are peripherals and their function?<br>• Building on Improving mouse skills | **Programming 1**<br>• Algorithms and debugging<br>• Where do you find a bug in a computer?<br>• Building on Algorithms unplugged | **Computing systems and networks 2**<br>• Option 2: Microsoft Office 365<br>• How can I create a shortcut? |

| | Autumn Term 1 | Autumn Term 2 | Spring Term 1 | Spring Term 2 | Summer Term 1 | Summer Term 2 |
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| **Key Stage 1**<br><br>**Cycle B 2026-27** | **Building on Improving mouse skills**<br>• Programming 2<br>• Programming Bee-bots Option 1: Bee-Bots Option 2: Virtual Bee-bots<br>• How can you program beep-bot?<br>• Building on Programing a Bee-Bot (R) | **Creating media**<br>• Digital imagery Option 1: Google Option 2: Microsoft Office 365<br>• What is an image and how do you change it?<br>• New Learning | **Data handling**<br>• Introduction to data handling<br>• How many ways can you represent data?<br>• Building on Introduction to Data (R) | **Programming 2**<br>• Make Code<br>• What 'blocks' do?'<br>• Building on Programming Bee-bots | **Creating media**<br>• Stop Motion Option 1: Using tablet device<br>• How do you bring a storyboard to life?<br>• Building on Digital imagery | **Data handling**<br>• International Space Station<br>• How can data help space exploration?<br>• Building on Introduction to data handling |

| | Autumn Term 1 | Autumn Term 2 | Spring Term 1 | Spring Term 2 | Summer Term 1 | Summer Term 2 |
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| **Key Stage 2**<br><br>**Cycle A 2025-26** | **Computing systems and networks Data handling**<br>• Collaborative Learning Option 1: Google<br>• How can people work on the same document at the same time, but miles apart?<br>• Building on Networks and the internet (Y2/3) | **Programming 1**<br>• Further coding with Scratch<br>• How many 'variables' can you have in a code scripts?<br>• Building on Algorithms and debugging and Programming Scratch (Y2/3) | **Creating media**<br>• Website design<br>• Can you grab a reader's attention on a webpage?<br>• Building on stop motion and Video trailers (Y2/3) | **Skills showcase**<br>• HTML<br>• What is the markup language behind a webpage?<br>• Showcase Skills from previous learning | **Programming 2**<br>• Computational thinking<br>• Do you need to solve problems in computing?<br>• New Learning | **Data handling**<br>• Investigating the weather Option 1: Google<br>• Why do you need a weather station on a spreadsheet?<br>• Building on Comparison cards databases (Y2/3) |

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| **Key Stage 2**<br><br>**Cycle B 2026-27** | **Computing systems and networks**<br>• Search engines Option 1: Google Option<br>• How do you get to be the top of the rank?<br>• Building on Collaborative Learning | **Programming 1**<br>• Programming music Option 1: Sonic PI, Option 2: Scratch<br>• Can you be on top of the pops?<br>• Building on Further coding with Scratch | **Data handling**<br>• Mars Rover 1<br>• Why do we use a binary code to send messages?<br>• Building on Investigating weather | **Programming 2**<br>• Micro:bit<br>• Why do you need to 'predict, test and evaluate' on a computer?<br>• Building on Computational thinking | **Creating media**<br>• Stop motion animation Option 1: Stop motion studio<br>• What do you need to do to create an illusion?<br>• Building on Website design | **Skills showcase**<br>• Mars Rover 2<br>• Can you transfer data from Mars?<br>• Building on Mars Rover 1 |
| **Key Stage 2**<br><br>**Cycle C 2027-28** | **Creating media**<br>• History of computers<br>• Can a computer fill a room?<br>• Building on Search engines Option | **Programming**<br>• AI unit<br>• What is AI and how is it used?<br>• Building on Programming music | **Data handling**<br>• Big data 1<br>• Why were barcodes and QR code invented?<br>• Data handling: Mars Rover 1 | **Computing systems and networks**<br>• Introduction to Python<br>• What are loops and how can they help me program?<br>• Building on Programming music | **Data handling**<br>• Big Data 2<br>• How do you make a code more efficient?<br>• Building on Mars Rover 1 and 2 | **Skills showcase**<br>• Inventing a product<br>• Would you win dragon's den?<br>• Showcase Skills from previous learning |
| **Key Stage 2**<br><br>**Cycle D 2028-29** | **Networks and the internet**<br>• Networks and the internet<br>• How can a network help us communicate?<br>• New Learning | **Programming Computing systems and networks 2**<br>• Programming Scratch<br>• Why do you use a predict > test > review cycle on a computer program?<br>• Building on Programming Scratch Jnr. (Y2) | **Computing systems and networks 3**<br>• Emailing<br>• Option 2: Microsoft Office 365<br>• Attachments, what are they?<br>• Building on Word processing (Y2) | **Computing systems and networks 3**<br>• Journey inside a computer<br>• What does the inside of a computer look like?<br>• Building on What is a computer? (Yr2) | **Creating media**<br>• Video trailers<br>• Option 2: Using I-pads<br>• Do you need actors to make a video trailer?<br>• Building on Stop Motion (Y2) | **Data handling**<br>• Comparison cards databases<br>• Why do you need to filter data?<br>• Building on International Space Station (Y2) |