

### **Ropsley's Computing Curriculum**

"If we teach today as we taught yesterday, we rob our children of tomorrow." John Dewey (philosopher, psychologist, and educational reformer)

We flourish in Computing because:

We believe computing is an integral part of our everyday life and will play an immeasurable part in our children's futures. We aim to provide all of our children with the skills to remain safe, be creative and enthusiastic life-long learners who can live and flourish in a world increasingly dependent on computing.

'Computational thinking is a skill ALL children must master if they are to be ready for the workplace and able to participate effectively in this digital world.

Our computing curriculum is split up into four sections: Digital literacy, Technology in the world, Technical understanding and online safety.

When designing our computing curriculum, we identified key concepts which run throughout our curriculum. These concepts help both teachers and children to group important knowledge into more manageable units which helps to draw out the links between ideas and processes as children progress through school.

| Online Safety          | Unit 1.1 Online Safety & Exploring Purple Mash |
|------------------------|--|
|                        | Unit 2.2 Online Safety                         |
|                        | Unit 3.2 Online safety                         |
|                        | Unit 4.2 Online Safety                         |
|                        | Unit 5.2 Online safety                         |
|                        | Unit 6.2 Online safety                         |
| Digital Literacy       | Unit 1.9 Technology outside school             |
|                        | Unit 2.5 Effective Searching                   |
|                        | Unit 3.5 Email (Inc. email safety)             |
|                        | Unit 4.7 Effective Search                      |
| Information technology | Unit 1.3 Pictograms                            |
|                        | Unit 1.6 Animated Story Books                  |
|                        | Unit 1.8 Spreadsheets                          |
|                        | Unit 2.3 Spreadsheets                          |
|                        | Unit 2.4 Questioning                           |
|                        | Unit 2.6 Creating Pictures                     |

|                  | Unit 2.7 Making Music                    |  |  |  |  |
|------------------|--|--|--|--|--|
|                  | Unit 2.8 Presenting Ideas                |  |  |  |  |
|                  | Unit 3.3 Spreadsheets                    |  |  |  |  |
|                  | Unit 3.6 Branching Databases             |  |  |  |  |
|                  | Unit 3.7 Simulations                     |  |  |  |  |
|                  | Unit 3.8 Graphing                        |  |  |  |  |
|                  | Unit 4.3 Spreadsheets                    |  |  |  |  |
|                  | Unit 4.4 Writing for Different Audiences |  |  |  |  |
|                  | Unit 4.6 Animation                       |  |  |  |  |
|                  | Unit 5.3 Spreadsheets                    |  |  |  |  |
|                  | Unit 5.4 Databases                       |  |  |  |  |
|                  | Unit 5.6 3D Modelling                    |  |  |  |  |
|                  | Unit 6.3 Spreadsheets                    |  |  |  |  |
|                  | Unit 6.7 Quizzing                        |  |  |  |  |
| Computer Science | Unit 1.4 Lego Builders                   |  |  |  |  |
| •                | Unit 1.2 Grouping & Sorting              |  |  |  |  |
|                  | Unit 1.7 Coding                          |  |  |  |  |
|                  | Unit 2.1 Coding                          |  |  |  |  |
|                  | Unit 1.5 Maze Explorers                  |  |  |  |  |
|                  | Unit 3.1 Coding                          |  |  |  |  |
|                  | Unit 4.1 Coding                          |  |  |  |  |
|                  | Unit 4.5 Logo                            |  |  |  |  |
|                  | Unit 4.8 Hardware Investigators          |  |  |  |  |

# Coding Breakdown YEAR 3 & 4 - CYCLE A

| Using Flowcharts Unit 3.1, Lesson 1 | Using Timers Unit 3.1, Lesson 2 | 'if' statements<br>Unit 4.1, Lesson 2 | Coordinates Unit 4.1, Lesson 3 | Code, Test and Debug –<br>Unit 3.1, Lesson 4 | Design, Code, Test and<br>Debug |
|-------------------------------------|---------------------------------|---------------------------------------|--------------------------------|--|---------------------------------|
|                                     |                                 |                                       |                                |  | Unit 4.1, Lesson 1              |

#### YEAR 3 & 4 - CYCLE B

| Using Repeat       | Repeat Until and 'if/else' | Number Variables   | Design and Make an   | Making a Playable game – |
|--------------------|----------------------------|--------------------|----------------------|--------------------------|
| Unit 3.1, Lesson 3 | Statements                 | Unit 4.1, Lesson 5 | Interactive scene    | Unit 4.1, Lesson 6       |
|                    | Unit 4.1, Lesson 4         |                    | Unit 3.1, Lesson 5-6 |                          |

## Coding Breakdown YEAR 5 & 6 - CYCLE A

| Coding Efficiently | Simulating a physical | Friction and Functions | Introducing Strings | Text Variable and  | User Input         |
|--------------------|-----------------------|------------------------|---------------------|--------------------|--------------------|
| Unit 5.1, Lesson 1 | system                | Unit 5.1, Lesson 4     | Unit 5.1, Lesson 5  | Concatenation      | Unit 6.1, Lesson 5 |
|                    | Unit 5.1, Lesson 2    |                        |                     | Unit 5.1, Lesson 6 |                    |

#### YEAR 5 & 6 - CYCLE B

| Designing and writing a more | Decomposition and  | Using Functions    | Flowcharts and control | Text Adventure     |
|------------------------------|--------------------|--------------------|------------------------|--------------------|
| complex program              | Abstraction        | Unit 6.1, Lesson 3 | simulations            | Unit 6.1, Lesson 6 |
| Unit 6.1, Lessons 1 & 2      | Unit 5.1, Lesson 3 |                    | Unit 6.1, Lesson 4     |                    |

## Cycle A

|                       | Autumn   | Term  | Spring T   | erm   | Summer Term   |   |  |  |  |
|-----------------------|--|---|--|---|---|---|--|--|--|
| EYFS (One year cycle) | The scheme for Early Y   | The scheme for Early Years shows opportunities for using Mini Mash or Purple Mash as part of the Early Years classroom to support children in working towards early learning goals. |  |   |   |   |  |  |  |
| Y1/2<br>Y3/4          | Unit 1.1 Online Safety & Exploring Purple Mash Number of lessons – 4 Programs – Various  Unit 2.5 Effective Searching Number of lessons – 3 Programs – Browser Unit 3.1 Coding Number of lessons – 6 | Unit 1.4 Lego Builders Number of lessons – 3 Programs – 2DIY  Unit 1.9 Technology outside school Number of lessons – 2 Programs – Various Unit 3.2 Online safety                    | Unit 1.2 Grouping & Sorting Number of lessons – 2 Programs – 2DIY  Unit 2.6 Creating Pictures Number of lessons – 5 Programs – 2PaintAPicture  Unit 3.5 Email (including email safety) | Unit 1.8 Spreadsheets Number of lessons – 3 Programs – 2Calculate  Unit 3.6 Branching Databases | Unit 1.7 Coding Number of lessons – 6 Programs – 2Code  Unit 3.7 Simulations        | Unit 2.1 Coding Number of lessons – 5 Programs – 2Code  Unit 3.8 Graphing |  |  |  |
|                       | Main Programs – 2Code<br>See table below for breakdown.  | Number of lessons – 3 Programs – Various  Unit 3.3 Spreadsheets Number of lessons – 3 Programs – 2Calculate   | Number of lessons – 6<br>Programs – 2Email, 2Connect, 2DIY   | Number of lessons – 4<br>Programs – 2Question   | Number of lessons – 3<br>Programs –<br>2Simulate, 2Publish                          | Number of lessons – 3<br>Programs – 2Graph                                |  |  |  |
| Y5/6                  | Unit 5.1 Coding Number of lessons – 6 Main Programs – 2Code See table below for breakdown.   | Unit 5.3<br>Spreadsheets<br>Number of lessons – 6<br>Programs – 2Calculate  | Unit 5.2 Online safety Number of lessons – 3 Programs – Various  Unit 5.7 Concept Maps Number of lessons – 4 Programs – 2Connect   | Unit 5.4 Databases Number of lessons – 4 Programs – 2Question, 2Investigate                     | Unit 5.6<br>3D Modelling<br>Number of lessons – 4<br>Programs – 2Design<br>and Make | Unit 5.5<br>Game Creator<br>Number of lessons – 5<br>Programs – 2DIY 3D   |  |  |  |

|      | Ropsley's School Curriculum Overview - Computing |                          |                      |                      |                          |                          |  |  |  |  |
|------|--|--------------------------|----------------------|----------------------|--------------------------|--------------------------|--|--|--|--|
|      | Autumn 1   | Autumn 2                 | Spring 1             | Spring 2             | Summer 1                 | Summer 2                 |  |  |  |  |
| EYFS | <b>Enquiry Question:</b>                         | <b>Enquiry Question:</b> | Enquiry<br>Question: | Enquiry<br>Question: | <b>Enquiry Question:</b> | <b>Enquiry Question:</b> |  |  |  |  |
|      | Intent:  | Intent:                  | Intent:              | Intent:              | Intent:                  | Intent:                  |  |  |  |  |
|      | Future Learning:                                 | Future Learning:         | Future Learning:     | Future Learning:     | Future Learning:         | Future Learning:         |  |  |  |  |

|                         | Autumn 1   | Autumn 2   | Spring 1  | Spring 2  | Summer 1  | Summer 2   |
|-------------------------|--|--|---|---|---|--|
| Year 1/2 Cycle A  First | Unit 1.1 Online Safety & Exploring Purple Mash Enquiry Question: How can I stay safe online?   | Unit 1.4 Lego Builders Enquiry Question: What happens if you don't follow instructions?  | Unit 1.2 Grouping<br>and Sorting<br>Enquiry Question:<br>What happens if you<br>don't follow<br>instructions?           | Unit 1.8 Spreadsheets Enquiry Question: What is a spreadsheet?  | Unit 1.7 Coding Enquiry Question: Can I make a computer do what it's told?  | Unit 2.1 Coding Enquiry Question: How do I get rid of a computer bug?  |
| Unit of the Term        | Builds on:<br>Learning in the EYFS.  | Alongside: Unit 1.1 Coding Unit 1.5 Maze builders  | Alongside:<br>Unit 1.3 Pictograms   | Alongside:<br>Unit 1.3 Pictograms   | Alongside:<br>Unit 1.4 Lego Builders<br>Unit 1.5 Maze builders  | Alongside: Unit 1.1 Coding Unit 1.4 Lego Builders Unit 1.5 Maze builders   |
|                         | Future Learning: Unit 2.2 Online Safety Unit 3.2 Online safety Unit 4.2 Online Safety Unit 5.2 Online safety Unit 6.2 Online safety  | Future Learning: Unit 2.1 Coding Unit 2.4 Questioning Unit 3.1 Coding Unit 3.6 Branching Databases Unit 4.1 Coding Unit 4.5 Logo Unit 4.6 Animation    | Future Learning: Unit 2.4 Questioning Unit 3.6 Branching Databases Unit 3.8 Graphing Unit 5.4 Databases                 | Future Learning: Unit 3.3 Spreadsheets Unit 3.8 Graphing Unit 4.3 Spreadsheets Unit 5.4 Databases Unit 6.3 Spreadsheets Unit 6.9 Spreadsheets | Future Learning: Unit 2.1 Coding Unit 2.4 Questioning Unit 3.1 Coding Unit 3.6 Branching Databases Unit 4.1 Coding Unit 4.5 Logo Unit 4.6 Animation Unit 5.1 Coding Unit 6.1 Coding Unit 6.8 Binary | Future Learning: Unit 2.4 Questioning Unit 3.1 Coding Unit 3.6 Branching Databases Unit 4.1 Coding Unit 4.5 Logo Unit 4.6 Animation Unit 5.1 Coding Unit 6.1 Coding Unit 6.5 Text Adventures Unit 6.8 Binary |
| Year 1/2<br>Cycle A     | Unit 2.5 Effective Searching Enquiry Question: What is a browser and how can I find what I need online?  | Unit 1.9 Technology<br>outside school<br>Enquiry Question: Which<br>colours can you make?  | Unit 2.6 Creating Pictures Enquiry Question: How can we use a computer to make art?                                     |   | ·   |  |
| Second<br>Unit of       | Builds on: Unit 1.1 Online Safety and Exploring Purple Mash  | Builds on: Learning in the EYFS.   | Alongside: Unit 1.6<br>Animated Story Books   |   |   |  |
| the<br>Term             | Future Learning: Unit 2.2 Online Safety Unit 3.2 Online safety Unit 4.7 Effective Searching Unit 5.2 Online Safety Unit 5.8 Word Processing Unit 6.2 Online Safety Unit 6.8 Networks | Future Learning: Unit 3.5 E-mail Unit 3.7 Simulations Unit 4.7 Effective Searching Unit 4.8 Hardware Investigators Unit 6.4 Blogging Unit 6.6 Networks | Future Learning:<br>Unit 4.6 Animation<br>Unit 5.5 Game Creator<br>Unit 5.6 3D Modelling<br>Unit 6.5 Text<br>Adventures |   |   |  |

|                        | Autumn 1  | Autumn 2  | Spring 1   | Spring 2  | Summer 1  | Summer 2   |
|------------------------|---|---|--|---|---|--|
| Year 3/4<br>Cycle A    | Unit 3.1 Coding Enquiry Question: How can I make my computer wait?  | Unit 3.2 Online Safety<br>Enquiry Question: How<br>do I keep my password<br>safe?   | Unit 3.5 E-mail<br>(including e-mail<br>safety)<br>Enquiry Question: Can<br>I write an E-mail?                                       | Unit 3.6 Branching Databases Enquiry Question: Can I sort information faster than my teacher?                       | Unit 3.7 Simulations Enquiry Question: Let's try it out first!                            | Unit 3.8 Graphing Enquiry Question: Can a graph help me solve it?  |
| Unit of<br>the<br>Term | Builds on: Unit 1.1 Coding Unit 1.4 Lego Builders Unit 1.5 Maze builders Unit 2.1 Coding Unit 2.4 Questioning   | Builds On: Unit 1.1 Online Safety and Exploring Purple Mash Unit 1.6 Technology outside School Unit 2.2 Online Safety Unit 2.5 Effective Searches                             | Builds On:<br>Unit 3.5 E-mail<br>Unit 4.2 Online Safety<br>Unit 4.7 Effective<br>Searching<br>Unit 5.2 Online Safety                 | Builds On: Unit 1.2 Grouping & Sorting Unit 1.3 Pictograms Unit 2.3 Spreadsheets Unit 2.4 Questioning               | Builds On:<br>Unit 1.1 Coding<br>Unit 1.6 Technology<br>outside School<br>Unit 2.1 Coding | Builds On: Unit 1.2 Grouping & Sorting Unit 1.3 Pictograms Unit 2.3 Spreadsheets Unit 2.4 Questioning Unit 3.6 Branching Databases |
|                        | Future Learning: Unit 3.6 Branching Databases Unit 4.1 Coding Unit 4.5 Logo Unit 4.6 Animation Unit 5.1 Coding Unit 6.1 Coding Unit 6.5 Text Adventures Unit 6.8 Binary | Future Learning: Unit 3.5 E-mail Unit 4.2 Online Safety Unit 4.7 Effective Searching Unit 5.2 Online Safety Unit 5.8 Word Processing Unit 6.2 Online Safety Unit 6.4 Blogging | Future Learning: Unit 4.2 Online Safety Unit 4.7 Effective Searching Unit 5.2 Online Safety Unit 6.2 Online Safety Unit 6.4 Blogging | Future Learning: Unit 3.8 Graphing Unit 4.3 Spreadsheets Unit 5.4 Databases Unit 6.7 Quizzing Unit 6.9 Spreadsheets | Future Learning: Unit 4.1 Coding Unit 5.1 Coding Unit 6.1 Coding                          | Future Learning: Unit 4.3 Spreadsheets Unit 5.3 Spreadsheets Unit 6.9 Spreadsheets   |
| Year 3/4               |   | Unit 3.3 Spreadsheets unity Question: What is > ?   |  |   |   |  |
| Second<br>Unit of      |   | Builds on:<br>Unit 1.3 Pictograms<br>Unit 1.8 Spreadsheets<br>Unit 2.3 Spreadsheets<br>Unit 2.4 Questioning   |  |   |   |  |
| the<br>Term            |   | Future Learning: Unit 3.8 Graphing Unit 4.3 Spreadsheets Unit 5.3 Spreadsheets Unit 5.4 Databases Unit 6.3 Spreadsheets Unit 6.9 Spreadsheets                                 |  |   |   |  |

|                                 | Autumn 1  | Autumn 2  | Spring 1  | Spring 2   | Summer 1  | Summer 2  |
|---------------------------------|---|---|---|--|---|---|
| Year 5/6<br>Cycle A             | Unit 5.1 Coding Enquiry Question: Red, amber, green.  | Unit 5.3 Spreadsheets Enquiry Question: What are formulae?  | Unit 5.2 Online Safety Enquiry Question: How do I protect my privacy?   | Unit 5.4 Databases Enquiry Question: Can I make my own database?   | Unit 5.6 3D Modelling Enquiry Question: How can I create a 3D Model?  | Unit 5.5 Game Creator<br>Enquiry Question: What<br>sort of game will you make?  |
| First<br>Unit of<br>the<br>Term | Builds on: Unit 1.1 Coding Unit 1.4 Lego Builders Unit 1.5 Maze builders Unit 2.1 Coding Unit 2.4 Questioning Unit 3.1 Coding Unit 3.6 Branching Databases Unit 4.1 Coding Unit 4.5 Logo Unit 4.6 Animation | Builds On: Unit 1.3 Pictograms Unit 1.8 Spreadsheets Unit 2.3 Spreadsheets Unit 2.4 Questioning Unit 3.3 Spreadsheets Unit 3.8 Graphing Unit 4.3 Spreadsheets | Builds On: Unit 1.1 Coding Unit 1.6 Technology outside School Unit 2.2 Online Safety Unit 2.5 Effective Searches Unit 3.2 Online Safety Unit 3.5 E-mail Unit 4.2 Online Safety Unit 4.7 Effective Searching | Builds On: Unit 1.2 Grouping & Sorting Unit 1.3 Pictograms Unit 2.3 Spreadsheets Unit 2.4 Questioning Unit 3.3 Spreadsheets Unit 3.6 Branching Databases Unit 3.8 Graphing Unit 4.3 Spreadsheets | Builds On: Unit 1.1 Coding Unit 1.6 Technology outside School Unit 2.6 Creating Pictures Unit 4.6 Animation | Builds On: Unit 1.1 Coding Unit 1.6 Technology outside School Unit 2.6 Creating Pictures Unit 2.7 Making Music Unit 4.6 Animation Unit 4.9 Making Music |
|                                 | Future Learning: Unit 6.1 Coding Unit 6.5 Text Adventures Unit 6.8 Binary   | Future Learning:<br>Unit 5.4 Databases<br>Unit 6.3 Spreadsheets<br>Unit 6.9 Spreadsheets  | Future Learning: Unit 5.2 Online Safety Unit 5.8 Word Processing Unit 6.2 Online Safety Unit 6.4 Blogging   | Future Learning:<br>Unit 6.7 Quizzing<br>Unit 6.9 Spreadsheets   | Future Learning:<br>Unit 5.5 Game Creator   | Future Learning: Unit 6.5 Text Adventures   |
| Year 5/6<br>Cycle A             |   |   | Unit 5.7 Concept Maps Enquiry Question: How and why should I use a concept map?   |  |   |   |
| Second Unit of the Term         |   |   | Builds On: Unit 1.6 Technology outside School Unit 2.6 Presenting Ideas   |  |   |   |

|  | Unit 4.4 Writing for different audiences |  |  |
|--|--|--|--|
|  | <b>Future Learning:</b> Unit 5.8 Word    |  |  |
|  | Processing                               |  |  |
|  | Unit 6.4 Blogging Unit 6.5 Text          |  |  |
|  | Adventures                               |  |  |

# Cycle B

|                       | Autumn Term Spring Te   |   | Term  | Summer Term  |   |   |  |
|-----------------------|---|---|---|--|---|---|--|
| EYFS (One year cycle) | The scheme for Early Years shows opportunities for using Mini Mash or Purple Mash as part of the Early Years classroom to support children in working towards early learning goals. |   |   |  |   |   |  |
| Y1/2                  | Unit 1.1 Online Safety & Exploring Purple Mash Number of lessons – 4 Programs – Various  Unit 1.5 Maze Explorers Number of lessons – 3 Programs – 2Go                               | Unit 2.4 Questioning Number of lessons – 5 Programs – 2Question, 2Investigate   | Unit 2.2 Online Safety Number of lessons – 3 Programs – Various  Unit 2.7 Making Music Number of lessons – 3 Programs – 2Sequence | Unit 1.6<br>Animated Story Books<br>Number of lessons – 5<br>Programs – 2Create A Story          | Unit 1.3 Pictograms Number of lessons – 3 Programs – 2Count  Unit 2.8 Presenting Ideas Number of lessons – 4 Programs – Various | Unit 2.3<br>Spreadsheets<br>Number of lessons – 4<br>Programs –<br>2Calculate                             |  |
| Y3/4                  | Unit 4.1 Coding Number of lessons – 6 Main Programs – 2Code See table below for breakdown.  | Unit 4.2 Online safety Number of lessons – 4 Programs – Various  Unit 4.7 Effective Search Number of lessons – 3 Programs – Browser | Unit 4.3 Spreadsheets Number of lessons – 6 Programs – 2Calculate   | Unit 4.4 Writing for different audiences Number of lessons – 5 Programs – 2Email, 2Connect, 2DIY | Unit 4.5 Logo Number of lessons – 4 Programs – Logo  Unit 4.8 Hardware Investigators Number of lessons – 2                      | Unit 4.6<br>Animation<br>Number of lessons – 3<br>Programs – 2Animate                                     |  |
| Y5/6                  | Unit 6.1 Coding Number of lessons – 6 Main Programs – 2Code See table below for breakdown.  | Unit 6.2 Online safety Number of lessons – 2 Programs – Various  Unit 6.4 Blogging Number of lessons – 4 Programs – 2Blog           | Unit 6.3 Spreadsheets Number of lessons – 5 Programs – 2Calculate   | Unit 6.5 Text Adventures Number of lessons – 5 Programs – 2Code, 2Connect                        | Unit 6.6<br>Networks<br>Number of lessons – 3   | Unit 6.7<br>Quizzing<br>Number of lessons – 6<br>Programs – 2Quiz,<br>2DIY, Text Toolkit,<br>2Investigate |  |

|  | Autumn 1  | Autumn 2   | Spring 1   | Spring 2  | Summer 1   | Summer 2   |
|--|---|--|--|---|--|--|
| Year 1/2 Cycle B  First Unit of the Term | Unit 1.1 Online Safety & Exploring Purple Mash Enquiry Question: How can I stay safe online?  | Unit 2.4 Questioning Enquiry Question: What is a binary tree?  | Unit 2.2 Online Safety Enquiry Question: How can I search safely?  | Unit 1.6 Animated<br>Story Books<br>Enquiry Question:<br>What makes a great<br>story?       | Unit 1.3 Pictograms Enquiry Question: What does your pictogram show you?   | Unit 2.3 Spreadsheets Enquiry Question: Can I use a spreadsheet to add up my money?  |
|  | Builds on:<br>Learning in the EYFS.   | Builds on: Unit 1.2 Grouping & Sorting Unit 1.3 Pictograms Unit 2.3 Spreadsheets   | Builds on: Unit 1.1 Online Safety and PM Unit 1.6 Technology out of school Alongside: Unit 2.5 Effective Searching   | Builds on:<br>Unit 1.1 Online Safety<br>and PM  | Builds on:<br>Unit 1.2 Grouping &<br>Sorting   | Builds on:<br>Unit 1.3 Pictograms<br>Unit 1.8 Spreasheets  |
|  | Future Learning: Unit 2.2 Online Safety Unit 3.2 Online safety Unit 4.2 Online Safety Unit 5.2 Online safety Unit 6.2 Online safety | Future Learning: Unit 3.3 Spreadsheets Unit 3.6 Branching Databases Unit 3.8 Graphing Unit 4.3 Spreadsheets Unit 5.4 Databases Unit 6.7 Quizzing Unit 6.9 Spreadsheets | Future Learning: Unit 3.2 Online safety Unit 3.5 E-mail Unit 4.2 Online Safety Unit 4.7 Effective Searches Unit 5.2 Online safety Unit 5.8 Word Processing Unit 6.4 Blogging | Future Learning: Unit 2.6 Creating Pictures Unit 2.7 Making Music Unit 2.8 Presenting Ideas | Future Learning: Unit 2.3Spreadsheets Unit 2.4 Questioning Unit 3.3 Spreadsheets Unit 3.6 Branching Databases Unit 3.8 Graphing Unit 4.3 Spreadsheets Unit 5.4 Databases Unit 6.9 Spreadsheets | Future Learning: Unit 2.4 Questioning Unit 3.3 Spreadsheets Unit 3.8 Graphing Unit 4.3 Spreadsheets Unit 5.3 Spreadsheets Unit 5.4 Databases Unit 6.3 Spreadsheets Unit 6.9 Spreadsheets |
| Year 1/2 Cycle B Second                  | Unit 1.5 Maze Explorers Enquiry Question: Which way will the arrows take me?  |  | Unit 2.7 Making Music Enquiry Question: How can we use a computer to make music?   |   | Unit 2.8 Presenting Enquiry Question: Ideas Can you make a quiz?   |  |
| Unit of<br>the<br>Term                   | Alongside: Unit 1.4 Lego Builders Unit 1.7 Coding   |  | Builds on:<br>Unit 1.6 Animated<br>Story Books   |   | Builds on: Unit 1.6 Animated Story Books Alongside: Unit 2.6 Creating Pictures   |  |

| Future Learning: Unit 2.1 Coding Unit 2.4 Questioning Unit 3.1 Coding Unit 3.6 Branching Databases Unit 4.1 Coding Unit 4.5 Logo Unit 4.6 Animation Unit 5.1 Coding Unit 5.5 Game Creator Unit 5.6 3D Modelling | Unit 3.9 Presenting in PowerPoint |
|---|-----------------------------------|
|---|-----------------------------------|

|                        | Autumn 1  | Autumn 2  | Spring 1  | Spring 2  | Summer 1  | Summer 2   |
|------------------------|---|---|---|---|---|--|
| Year 3/4<br>Cycle B    | Unit 4.1 Coding Enquiry Question: How can I make my computer wait?  | Unit 3.2 Online Safety Enquiry Question: How do I keep my password safe?  | Unit 3.5 E-mail<br>(including e-mail<br>safety)<br>Enquiry Question: Can<br>I write an E-mail?        | Unit 3.6 Branching Databases Enquiry Question: Can I sort information faster than my teacher?         | Unit 3.7 Simulations Enquiry Question: Let's try it out first!                | Unit 3.8 Graphing Enquiry Question: Can a graph help me solve it?  |
| First Unit of the Term | Builds on: Unit 1.1 Coding Unit 1.4 Lego Builders Unit 1.5 Maze builders Unit 2.1 Coding Unit 2.4 Questioning | Builds On: Unit 1.1 Online Safety and Exploring Purple Mash Unit 1.6 Technology outside School Unit 2.2 Online Safety Unit 2.5 Effective Searches | Builds On: Unit 3.5 E-mail Unit 4.2 Online Safety Unit 4.7 Effective Searching Unit 5.2 Online Safety | Builds On: Unit 1.2 Grouping & Sorting Unit 1.3 Pictograms Unit 2.3 Spreadsheets Unit 2.4 Questioning | Builds On: Unit 1.1 Coding Unit 1.6 Technology outside School Unit 2.1 Coding | Builds On: Unit 1.2 Grouping & Sorting Unit 1.3 Pictograms Unit 2.3 Spreadsheets Unit 2.4 Questioning Unit 3.6 Branching Databases |

|   | Future Learning: Unit 3.6 Branching Databases Unit 4.1 Coding Unit 4.5 Logo Unit 4.6 Animation Unit 5.1 Coding Unit 6.1 Coding Unit 6.5 Text Adventures Unit 6.8 Binary | Future Learning: Unit 3.5 E-mail Unit 4.2 Online Safety Unit 4.7 Effective Searching Unit 5.2 Online Safety Unit 5.8 Word Processing Unit 6.2 Online Safety Unit 6.4 Blogging   | Future Learning: Unit 4.2 Online Safety Unit 4.7 Effective Searching Unit 5.2 Online Safety Unit 6.2 Online Safety Unit 6.4 Blogging | Future Learning: Unit 3.8 Graphing Unit 4.3 Spreadsheets Unit 5.4 Databases Unit 6.7 Quizzing Unit 6.9 Spreadsheets | Future Learning: Unit 4.1 Coding Unit 5.1 Coding Unit 6.1 Coding | Future Learning: Unit 4.3 Spreadsheets Unit 5.3 Spreadsheets Unit 6.9 Spreadsheets |
|---|---|---|--|---|--|--|
| Year 3/4<br>Cycle B<br>Second<br>Unit of<br>the<br>Term |   | Unit 3.3 Spreadsheets uiry Question: What is > ? Builds on: Unit 1.3 Pictograms Unit 1.8 Spreadsheets Unit 2.3 Spreadsheets Unit 2.4 Questioning Future Learning: Unit 3.8 Graphing Unit 4.3 Spreadsheets Unit 5.3 Spreadsheets |  |   |  |  |
|   |   | Unit 5.4 Databases Unit 6.3 Spreadsheets Unit 6.9 Spreadsheets  |  |   |  |  |