Computer Science Information Technology Digital Literacy

Marston Computing Curriculum Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS						
Year 1/2 Cycle A	**Unit 1.1** Online safety and exploring Purple Mash **4 lessons:** 1. Safe Logins 2. Saving Work on Purple Mash 3. Purple Mash Topics 4. Purple Mash Tools **Unit 2.5** Effective Searching **3 lessons:** 1. Understanding Internet And Searching 2. Searching The Internet 3. Sharing Knowledge Of The Internet And Effective Searching		**Unit 2.3** Spreadsheets Crashcourse **4 lessons:** 1. Introduction to Spreadsheets 2. Using Tools to Calculate Totals 3. Using the Speak and Count Tools in 2calculate to Count Items 4. Creating a Table and Block Graph		**Unit 1.7** Coding **6 lessons:** 1. Instructions 2. Objects and Actions 3. Events 4. When Code Executes 5. Setting the Scene 6. Using a Plan	
Year 1/2 Cycle B	**Online Safety** **2 lessons:** Safety in my Online Neighbourhood Pause and Think Online **Unit 2.2** Online safety **3 lessons:** 1. Searching and Sharing 2. Email 2respond 3. Digital Footprint		**Unit 1.6** Animated Story Books **5 lessons:** 1. Drawing and Creating 2. Animation 3. Sounds and More 4. Making a Story 5. Copy and Paste		**Unit 2.1** Coding Crashcourse **6 lessons:** 1. Introduction to Coding: Objects and Actions 2. Events 3. Algorithms 4. Collision Detection 5. Using a Timer 6. Different Object Types and Buttons	
Year 3/4 Cycle A	**Online Safety** Digital Citizenship for Early Years and Primary Learners | Common Sense Education **1 Lessons:** 1. We, The Digital Citizens **Unit 3.5** Email		**Online Safety** Digital Citizenship for Early Years and Primary Learners | Common Sense Education **1 Lessons:** 1. That's Private! **Unit 4.3** Spreadsheets Crashcourse		**Online Safety** Digital Citizenship for Early Years and Primary Learners | Common Sense Education **1 Lessons:** 1. Who is in Your Online Community? **Coding** **Unit 3.1/Unit 4.1:** See Y3/4 Coding units Cycle A	

<table>
<tr><td></td><td colspan="2">4 Lessons:
1. Using email safely (I3)
2. Composing emails (I2)
3. Attachments (I5)
4. Email simulations (I6)
Unit 4.3
Spreadsheets Crashcourse

1 Lessons:
1. Introduction to Spreadsheets</td><td colspan="2">5 Lessons:
2. Using Tools to Calculate Totals
3. Formulas Wizard and Formatting Cells
4. Creating Pie Charts and Bar Charts
5. Line Graphs
Using a Spreadsheet to Model a Situation

Coding
Unit 3.1/Unit 4.1: See Y3/4 Coding units Cycle A

6 lessons:
1. Using Flowcharts</td><td colspan="2">6 lessons:
2. Using Timers
3. ‘If’ Statements
4. Coordinates
5. Code, Test and Debug
6. Design, Code, Test and Debug</td></tr>
<tr><td>A Coding Breakdown</td><td>Unit 3.1 L1
Using Flowcharts</td><td>Unit 3.1 L2
Using Timers</td><td>Unit 4.1 L2
‘if’ Statements</td><td>Unit 4.1 L3
Coordinates</td><td>Unit 3.1 L4
Code, Test and Debug</td><td>Unit 4.1 L1
Design, Code, Test and Debug</td></tr>
<tr><td>Year 3/4 Cycle B</td><td colspan="2">Online Safety
Digital Citizenship for Early Years and Primary Learners | Common Sense Education

1 Lessons:
1. Your Rings of Responsibility and Password Power Up

Unit 4.7
Effective Searching

3 Lessons:
1. Using a search engine
2. Use search effectively to answer questions
3. Reliable information sources
Unit 3.9
Microsoft PowerPoint

6 Lessons:
1. Making a Presentation From a Blank Page
2. Adding Media</td><td colspan="2">Online Safety
Digital Citizenship for Early Years and Primary Learners | Common Sense Education

1 Lessons:
1. This is Me and Our Digital Pledge

Unit 3.9
Microsoft PowerPoint

4 Lessons:
3. Adding Animation
4. Presenting With Timings
5. Create a Presentation
6. Complete Presentation

Coding
Unit 3.1/Unit 4.1: See Y3/4 Coding units Cycle B
1. Using Repeat</td><td colspan="2">Online Safety
Digital Citizenship for Early Years and Primary Learners | Common Sense Education

1 Lessons:
1. The Power of Words

Coding
Unit 3.1/Unit 4.1: See Y3/4 Coding units Cycle B

6 Lessons:
2. Using Repeat Until and If/Else Statements
3. Number Variables
4. Design and Make an Interactive Scene
5. Design and Make an Interactive Scene
6. Making a Playable Game

Extend with Scratch</td></tr>
<tr><td>B Coding Breakdown</td><td>Unit 3.1 L3
Using Repeat</td><td>Unit 4.1 L4
Using Repeat Until and If/Else Statements</td><td>Unit 4.1 L5
Number Variables</td><td>Unit 3.1 L5
Design and Make an Interactive Scene</td><td>Unit 3.1 L6
Design and Make an Interactive Scene</td><td>Unit 4.1 L6
Making a Playable Game</td></tr>
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<tr><td>Year 5/6
Cycle A</td><td colspan="2">Online Safety
Digital Citizenship for Early Years and Primary Learners | Common Sense Education

1 Lessons:
1. Private and Personal Information
Our Online Tracks

Unit 5.4
Databases

3 Lessons:
1. Searching a Database
2. Creating a Class Database
3. Creating a Topic Database
Unit 6.9
Spreadsheets (with Excel)

2 Lessons:
1. What is a Spreadsheet?
2. Basic Calculations</td><td colspan="2">Online Safety
Digital Citizenship for Early Years and Primary Learners | Common Sense Education

1 Lessons:
1. Keeping Games Fun and Friendly

Unit 6.9
Spreadsheets (with Excel)

6 Lessons:
3. Modelling
4. Organising Data
5. Advanced Formulae and Big Data
6. Charts and Graphics
7. Using a Spreadsheet to Plan a Cake Sale
8. Using a Spreadsheet to Solve Problems</td><td colspan="2">Online Safety
Digital Citizenship for Early Years and Primary Learners | Common Sense Education

1 Lessons:
1. Be a Super Digital Citizen

Coding
Unit 5.1/Unit 6.1 : See Y5/6 Coding units Cycle A

6 Lessons:
1. Coding Efficiently
2. Simulating a Physical System
3. Friction and Functions
4. Introducing Strings
5. Text Variable and Concatenation
6. User Input</td></tr>
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User Input</td></tr>
<tr><td>Year 5/6
Cycle B</td><td colspan="2">Online Safety
Digital Citizenship for Early Years and Primary Learners | Common Sense Education

1 Lessons:
1. Finding my Media Balance

Unit 5.8
Word processing using Microsoft Word
Information Technology

5 Lessons:
1. Making a document from a blank page
2. Inserting Images
3. Editing Images
4. Adding the Text
5. Finishing Touches</td><td colspan="2">Online Safety
Digital Citizenship for Early Years and Primary Learners | Common Sense Education

1 Lessons:
1. You Won’t Believe This and Digital Friendships

Unit 5.8
Word processing using Microsoft Word
Information Technology

3 Lessons:
6. Presenting Information in Tables
7. Writing a Letter Using a Template
8. Presenting Information – Newspaper

Coding
Unit 5.1/Unit 6.1: See Y5/6 Coding units Cycle B

6 Lessons:
1. Designing and Writing a More Complex Program</td><td colspan="2">Online Safety
Digital Citizenship for Early Years and Primary Learners | Common Sense Education

1 Lessons:
1. Is it Cyberbullying?

Coding
Unit 5.1/Unit 6.1: See Y5/6 Coding units Cycle B

6 Lessons:
4. Using Functions
5. Flowcharts and Control Simulations
6. Text Adventure

Extend with Scratch:
Computing: Scratch Animated Stories Year 6 Unit Pack (twinkl.co.uk)</td></tr>
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			2. Designing and Writing a More Complex Program 3. Decomposition and Abstraction			
B Coding Breakdown	**Unit 6.1 L1** Designing and Writing a More Complex Program	**Unit 6.1 L2** Designing and Writing a More Complex Program	**Unit 5.1 L3** Decomposition and Abstraction	**Unit 6.1 L3** Using Functions	**Unit 6.1 L4** Flowcharts and Control Simulations	**Unit 6.1 L6** Text Adventure