













# Cycle A Computing Whole School

Cycle A	Year 1/2	Year 3/4	Year 5/6
Autumn 1	<p style="text-align: center;"><b>Digital Literacy</b> <b>Online Safety</b></p>  <p><b>Lesson 1:</b> Searching and Sharing <b>Lesson 2:</b> Email Using 2 Respond <b>Lesson 3:</b> Digital footprint</p> <p style="text-align: center;"><b>Information Technology</b> <b>Effective Searching</b></p>  <p><b>Lesson 1:</b> Understanding the Internet and Searching <b>Lesson 2:</b> Searching the Internet <b>Lesson 3:</b> Sharing Knowledge of the Internet and Effective Searching</p>	<p style="text-align: center;"><b>Digital Literacy</b> <b>Online Safety</b></p>  <p><b>Lesson 1:</b> Going Phishing <b>Lesson 2:</b> Beware Malware <b>Lesson 3:</b> Plagiarism <b>Lesson 4:</b> Healthy Screen-time</p> <p style="text-align: center;"><b>Information Technology</b> <b>Effective Searching</b></p>  <p><b>Lesson 1:</b> Using a Search Engine <b>Lesson 2:</b> Use Search Effectively to Answer Questions <b>Lesson 3:</b> Reliable Information Sources</p>	<p style="text-align: center;"><b>Digital Literacy</b> <b>Online Safety</b></p>  <p><b>Lesson 1:</b> Message in a Game <b>Lesson 2:</b> Online Behaviour <b>Lesson 3:</b> Screen Time</p> <p style="text-align: center;"><b>Information Technology</b> <b>Blogging</b></p>  <p><b>Lesson 1:</b> What is a Blog? <b>Lesson 2:</b> Planning a Blog <b>Lesson 3:</b> Writing a Blog <b>Lesson 4:</b> Sharing posts and communication</p>
Autumn 2	<p style="text-align: center;"><b>Information Technology</b> <b>Making Music</b></p>  <p><b>Lesson 1:</b> Introducing 2Sequence <b>Lesson 2:</b> Making Music <b>Lesson 3:</b> Soundtracks</p> <p style="text-align: center;"><b>Information Technology</b> <b>Spreadsheets</b></p>  <p><b>Lesson 1:</b> Reviewing prior use of spreadsheets <b>Lesson 2:</b> Copying and Pasting Totalling tools <b>Lesson 3:</b> Using a spreadsheet to add amounts <b>Lesson 4:</b> Creating a table and block graph</p>	<p style="text-align: center;"><b>Information Technology</b> <b>Spreadsheets</b></p>  <p><b>Lesson 1:</b> Formula Wizard and Formatting Cells <b>Lesson 2:</b> Using the Timer and Spin Buttons <b>Lesson 3:</b> Line Graphs <b>Lesson 4:</b> Using a Spreadsheet for Budgeting <b>Lesson 5:</b> Exploring Place Value with a Spreadsheet (maths link)</p> <p style="text-align: center;"><b>Information Technology</b> <b>Hardware Investigators</b></p>  <p><b>Lesson 1:</b> Hardware <b>Lesson 2:</b> Parts of a Computer</p>	<p style="text-align: center;"><b>Information Technology</b> <b>Spreadsheets</b></p>  <p><b>Lesson 1:</b> What is a spreadsheet? <b>Lesson 2:</b> Basic Calculations <b>Lesson 3:</b> Modelling <b>Lesson 4:</b> Organising data <b>Lesson 5:</b> Advanced Formulae and Big Data <b>Lesson 6:</b> Charts and graphs <b>Lesson 7:</b> Using a spreadsheet to plan a cake sale <b>Lesson 8:</b> Using a spreadsheet to solve problems (maths/Science link)</p>
Spring 1	<p style="text-align: center;"><b>Information Technology</b> <b>Questions</b></p>	<p style="text-align: center;"><b>Information Technology</b> <b>Writing for Different Audiences</b></p> 	<p style="text-align: center;"><b>Information Technology</b> <b>Spreadsheets</b></p>

# Cycle A Computing Whole School



**Lesson 1:** Using and Creating Pictograms  
**Lesson 2:** Asking Yes / No Questions  
**Lesson 3:** Binary Trees  
**Lesson 4:** Using 2Question: A Computer-Based Binary Tree Program  
**Lesson 5:** Using 2Investigate: A Binary / Non-Binary Database

**Lesson 1:** Font Styles  
**Lessons 2 & 3:** Using a Simulated Scenario to Produce a News Report  
**Lessons 4 & 5:** Writing for a Campaign



**Lesson 1:** Exploring Probability  
**Lesson 2:** Creating a computational Model  
**Lesson 3:** Use a spreadsheet to plan pocket money spending  
**Lesson 4 & 5:** Planning a school event

Spring 2

## Information Technology Presenting Ideas



**Lesson 1:** Presenting a Story Three Ways  
**Lesson 2:** Presenting Ideas as a Quiz  
**Lesson 3:** Making a Non-Fiction Fact File  
**Lesson 4:** Making a Presentation

## Information Technology Animation



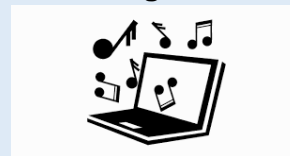
**Lesson 1:** Animating an Object  
**Lesson 2:** 2Animate Tools  
**Lesson 3:** Stop Motion Animation

## Information Technology Quizzing



**Lesson 1:** Introducing 2DIY  
**Lesson 2 and 3:** Using 2Quiz  
**Lesson 4:** Exploring Grammar Quizzes  
**Lesson 5:** A Database Quiz  
**Lesson 6:** Are you Smarter than a 10 (or 11-) Year-Old?

## Information Technology Making Music



**Lesson 1:** Understanding Music  
**Lesson 2:** Rhythm and Tempo  
**Lesson 3:** Melody and Pitch  
**Lesson 4:** Creating Music

Summer 1

## Computing Science Coding



**Lesson 1:** Algorithms  
**Lesson 2:** Collision Detection  
**Lesson 3:** Using a Timer  
**Lesson 4:** Different Object Types  
**Lesson 5:** Buttons  
**Lesson 6:** 'Smelly Code' Debugging

## Computing Science Coding



**Lesson 1:** Design, Code, Test and Debug  
**Lesson 2:** IF Statements  
**Lesson 3:** Co-ordinates  
**Lesson 4:** Repeat Until and IF/ELSE Statements  
**Lesson 5:** Number Variables  
**Lesson 6:** Making a Playable Game

## Computing Science Coding



**Lesson 1 & 2:** Designing and Making a more Complex Program  
**Lesson 3:** Using Functions  
**Lesson 4:** Flowcharts and Control Simulations  
**Lesson 5:** User Input  
**Lesson 6:** Using Text-based Adventures

# Cycle A Computing Whole School

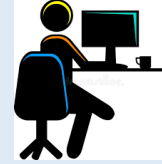
Summer 2

## Information Technology Creating Pictures



- Lesson 1:** Introduction and Impressionism
- Lesson 2:** Pointillist Art
- Lesson 3:** Piet Mondrian
- Lesson 4:** William Morris and Pattern
- Lesson 5:** Surrealism and e-collage

## Computing Science Using Logo



- Lesson 1:** Introduction to 2Logo
- Lesson 2:** Creating Letters using 2Logo
- Lesson 3:** Using the 'Repeat' Command in 2Logo
- Lesson 4:** Using Procedures

## Computing Science Networks



- Lesson 1:** The World Wide Web and the Internet
- Lesson 2:** Our School Network and Accessing the Internet
- Lesson 3:** Research

## Computing Science Binary



- Lesson 1:** What is Binary?
- Lesson 2:** Counting in Binary
- Lesson 3:** Converting from Decimal to Binary