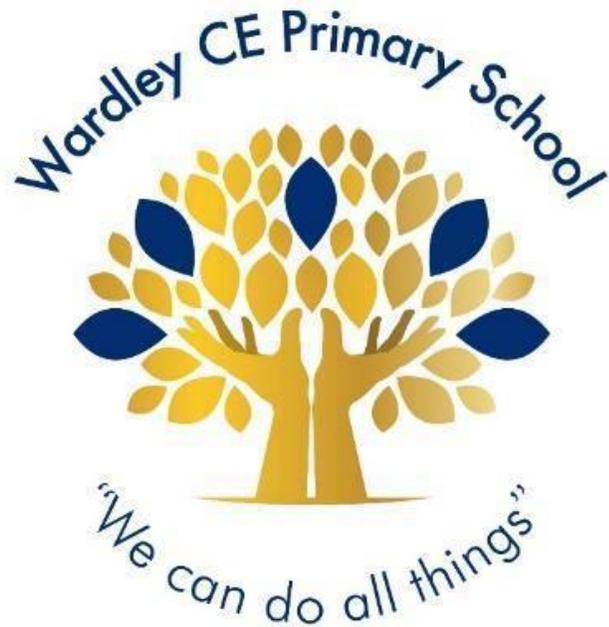


# Computing Curriculum



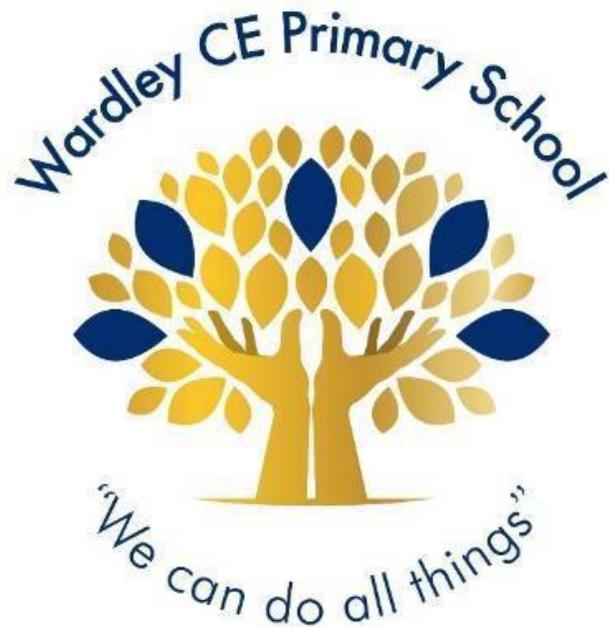
# Curriculum Intent



The curriculum intent for Wardley CE Primary school aims to:

- **Be ever-evolving**, providing opportunities for children to develop as independent, confident, resilient, successful & motivated learners striving for the pursuit of excellence who know how to make a positive and transformational contribution to their community and wider global society.
- **Be rooted in the school's Christian ethos**, encouraging our pupils to grow in self-awareness and becoming advocates of social justice, adaptable to any social context.
- **Be ambitious** in our aim for pupils to develop the communication skills necessary for learning and life, promoting enjoyment, high expectations and standards across all subject areas.
- **Be memorable**: providing diverse, social, moral, spiritual and cultural (SMSC) rich opportunities from which children learn and develop a range of transferable skills.
- **Be aspirational**, cultivating a sense of personal pride in achievement, provide a purpose and relevance for learning and ultimately to help every student to find strengths and interests.
- **Be inspiring**, to empower pupils to respect each other and themselves, show respect and understanding for people of all faiths, race and gender, and for all living things, promoting stewardship and ensuring children are well prepared for life in a rapidly changing world.

# Computing Intent



Our aim is to provide a high-quality computing education which equips children to use computational thinking and creativity to understand and change the world.

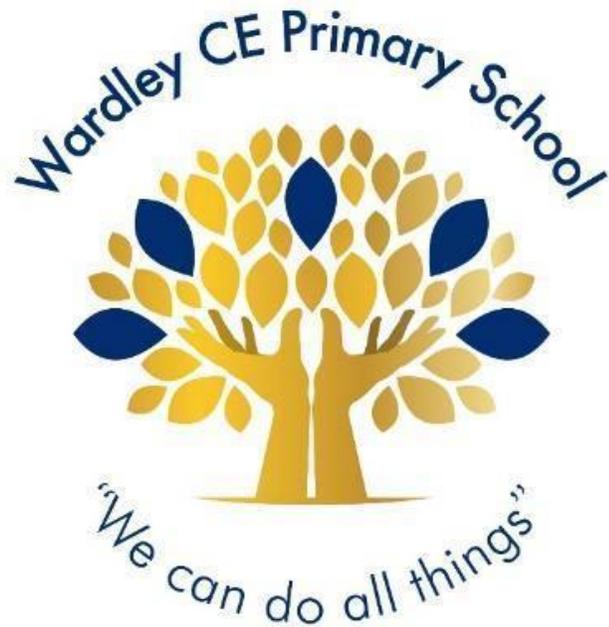
The curriculum will teach children key knowledge about how computers and computer systems work, and how they are designed and programmed. Learners will have the opportunity to gain an understanding of computational systems of all kinds, whether or not they include computers.

By the time they leave, children will have gained key knowledge and skills in the three main areas of the computing curriculum:

- Computer science (programming and understanding how digital systems work).
- Information technology (using computer systems to store, retrieve and send information)
- Digital literacy (evaluating digital content and using technology safely and respectfully).

The objectives within each strand support the development of learning across the key stages, ensuring a solid grounding for future learning and beyond.

# Computing Curriculum

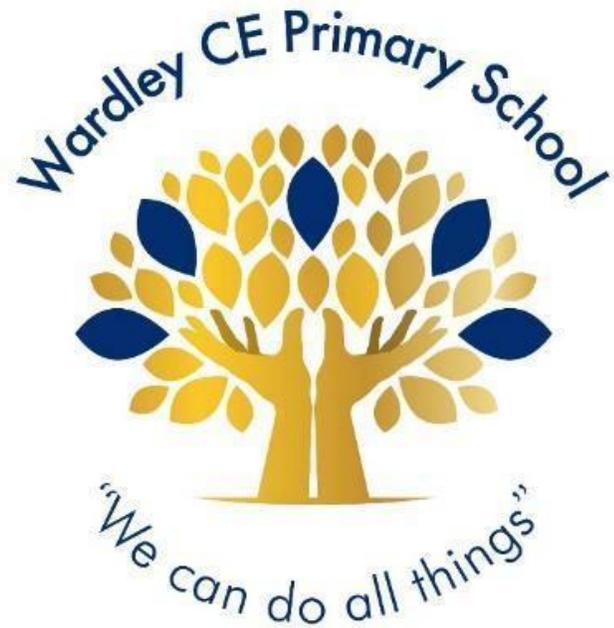


## Early Years

By the end of the Early Years Foundation Stage children should recognise that a range of technology is used in places such as homes and schools, that children can select and use technology for particular purposes. Used well technology can excite and motivate children, and it offers practitioners the chance to promote skills and observe progress across all areas of learning and development – in ways that would either be more difficult or impossible without it.

The September 2020 release of Development Matters outlines how effective teaching and learning gives children the opportunity to play and explore, participate in active learning and create and think critically. Tasks are outlined for each area of the EYFS framework, although, at Wardley, many other opportunities exist to use technology with younger children linked to a topic studied within class.

# Computing Curriculum



## Computing overview

# Computing Teaching Cycle

Week 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33

Year Group

Year 1	Unit 1.1 Online Safety & exploring Purple Mash (4 weeks)	Unit 1.7 Coding (6 weeks)	Unit 1.8 Spreadsheets (3 weeks)	Unit 1.4 Lego Builders (3 weeks)	Unit 1.5 Maze Explorers (3 weeks)	Unit 1.6 Animated Story Books (5 weeks)	Unit 1.3 Pictograms (3 weeks)	Unit 1.2 Grouping & Sorting (2 weeks)	Unit 1.9 Tech outside School (2 weeks)
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Year 2	Unit 2.2 Online Safety (3 weeks)	Unit 2.1 Coding (5 weeks)	Unit 2.3 Spreadsheets (4 weeks)	Unit 2.8 Presenting Ideas (4 weeks)	Unit 2.6 Creating Pictures (5 weeks)	Unit 2.4 Questioning (5 weeks)	Unit 2.5 Effective Search (3 weeks)	Unit 2.7 Making Music (3 weeks)
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Year 3	Unit 3.2 Online Safety (3 weeks)	Unit 3.1 Coding (6 weeks)	Unit 3.3 Spreadsheets (3 weeks)	Unit 3.4 Touch Typing (4 weeks)	Unit 3.6 Branching Databases (4 weeks)	Unit 3.8 Graphing (3 weeks)	Unit 3.5 Email (6 weeks)	Unit 3.7 Simulations (3 weeks)
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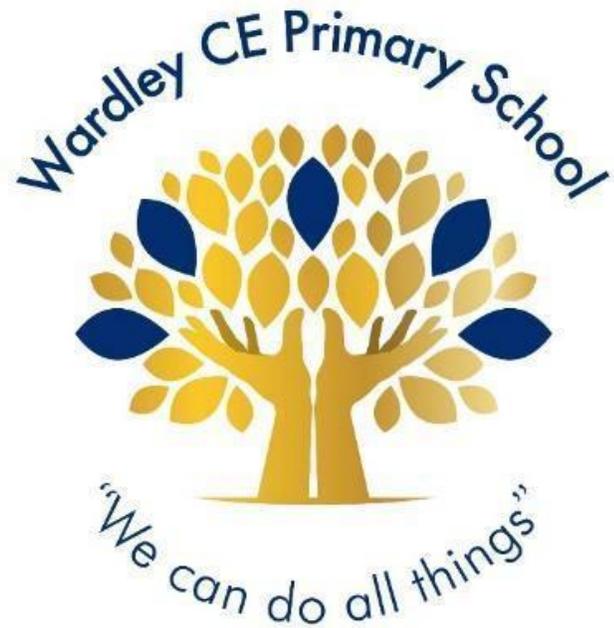
Year 4	Unit 4.2 Online Safety (4 weeks)	Unit 4.1 Coding (6 weeks)	Unit 4.3 Spreadsheets (6 weeks)	Unit 4.4 Writing for different audiences (5 weeks)	Unit 4.6 Animation (3 weeks)	Unit 4.5 Lego (4 weeks)	Unit 4.7 Effective Search (3 weeks)	Unit 4.8 Hardware Investigations (2 weeks)
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Year 5	Unit 5.2 Online Safety (3 weeks)	Unit 5.1 Coding (6 weeks)	Unit 5.3 Spreadsheets (6 weeks)	Unit 5.7 Concept Maps (4 weeks)	Unit 5.5 Game Creator (5 weeks)	Unit 5.6 3D Modelling (4 weeks)	Unit 5.4 Databases (4 weeks)
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Year 6	Unit 6.2 Online Safety (3 weeks)	Unit 6.1 Coding (6 weeks)	Unit 6.3 Spreadsheets (5 weeks)	Unit 6.7 Quizzing (6 weeks)	Unit 6.4 Blogging (5 weeks)	Unit 6.5 Text Adventures (5 weeks)	Unit 6.6 Networks (3 weeks)
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- Coding and Computational thinking
- Internet and Email
- Spreadsheets
- Writing and presenting
- Art and Design
- Databases and graphing
- Communication and networks
- Music

# Computing Curriculum



Threshold Concepts:  
Disciplinary Knowledge

## Computing: Progression of knowledge

	Algorithms (Code)	Create programs (Code)	Reasoning (Code)
	<i>Pupils should be taught to understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions</i>	<i>Pupils should be taught to create and debug simple programs</i>	<i>Pupils should be taught to use logical reasoning to predict the behaviour of simple programs</i>
By the end of Key Stage 1	<ul style="list-style-type: none"> <li>create a series of instructions and plan a journey for a programmable toy</li> </ul>	<ul style="list-style-type: none"> <li>create, store and retrieve digital content</li> </ul>	
	<ul style="list-style-type: none"> <li>understand that algorithms are used on digital devices</li> </ul>	<ul style="list-style-type: none"> <li>write a simple program and test it</li> </ul>	<ul style="list-style-type: none"> <li>predict what the outcome of a simple program will be (logical reasoning).</li> </ul>

# Computing: Progression of knowledge

	Using technology (Collect)	Uses of IT beyond school (Communicate)	Safe use (Connect)
	<i>Pupils should be taught to use technology purposefully to create, organise, store, manipulate and retrieve digital</i>	<i>Pupils should be taught to recognise common uses of information technology beyond school</i>	<i>Pupils should be taught to use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies</i>
By the end of Key Stage 1	<ul style="list-style-type: none"> <li>• use a website and a camera</li> <li>• record sound and play back</li> </ul>	<ul style="list-style-type: none"> <li>• talk about some of the IT uses in their own home</li> </ul>	<ul style="list-style-type: none"> <li>• use technology safely</li> <li>• keep personal information private</li> </ul>
	<ul style="list-style-type: none"> <li>• understand that programs require precise instructions</li> <li>• organise, retrieve and manipulate digital content</li> </ul>	<ul style="list-style-type: none"> <li>• know how technology is used in school and outside of school</li> </ul>	<ul style="list-style-type: none"> <li>• know where to go for help if concerned.</li> </ul>

# Computing: Progression of knowledge

	Create programs (Code)	Develop programs (Code)	Reasoning (Code)	Networks (Communicate)
	<i>Pupils should be taught to design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts</i>	<i>Pupils should be taught to use sequence, selection, and repetition in programs; work with variables and various forms of input and output</i>	<i>Pupils should be taught to use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</i>	<i>Pupils should be taught to understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration</i>
By the end of lower Key Stage 2	<ul style="list-style-type: none"> <li>write programs that accomplish specific goals</li> </ul>	<ul style="list-style-type: none"> <li>design a sequence of instructions, including directional instructions</li> </ul>	<ul style="list-style-type: none"> <li>discern when it is best to use technology and where it adds little or no value</li> </ul>	<ul style="list-style-type: none"> <li>navigate the web to complete simple searches</li> </ul>
	<ul style="list-style-type: none"> <li>give an 'on-screen' robot specific instructions that takes them from A to B</li> </ul>	<ul style="list-style-type: none"> <li>experiment with variables to control models</li> </ul>	<ul style="list-style-type: none"> <li>make an accurate prediction and explain why they believe something will happen (linked to programming)</li> </ul>	<ul style="list-style-type: none"> <li>know how to search for specific information and know which information is useful and which is not</li> </ul>
By the end of upper key stage 2	<ul style="list-style-type: none"> <li>use technology to control an external device</li> </ul>	<ul style="list-style-type: none"> <li>develop a program that has specific variables identified</li> </ul>	<ul style="list-style-type: none"> <li>analyse and evaluate information reaching a conclusion that helps with future developments</li> </ul>	
	<ul style="list-style-type: none"> <li>write a program that combines more than one attribute</li> </ul>	<ul style="list-style-type: none"> <li>develop a sequenced program that has repetition and variables identified</li> </ul>	<ul style="list-style-type: none"> <li>design algorithms that use repetition and 2-way selection</li> </ul>	

# Computing: Progression of knowledge

	Search engines (Collect)	Using programs (Communicate)	Safe use (Connect)
	<i>Pupils should be taught to use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</i>	<i>Pupils should be taught to select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information</i>	<i>Pupils should be taught to use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact</i>
By the end of lower Key Stage 2	<ul style="list-style-type: none"> <li>use a range of software for similar purposes</li> <li>collect and present information</li> </ul>	<ul style="list-style-type: none"> <li>understand what computer networks do and how they provide multiple services</li> </ul>	<ul style="list-style-type: none"> <li>use technology respectfully and responsibly</li> <li>Know different ways they can get help if concerned</li> </ul>
	<ul style="list-style-type: none"> <li>select and use software to accomplish given goals</li> </ul>	<ul style="list-style-type: none"> <li>produce and upload a podcast</li> </ul>	<ul style="list-style-type: none"> <li>recognise acceptable and unacceptable behaviour using technology</li> </ul>
By the end of upper key stage 2	<ul style="list-style-type: none"> <li>understand how search results are selected and ranked</li> </ul>	<ul style="list-style-type: none"> <li>combine sequences of instructions and procedures to turn devices on and off</li> </ul>	<ul style="list-style-type: none"> <li>understand that they have to make choices when using technology and that not everything is true and/or safe</li> </ul>
	<ul style="list-style-type: none"> <li>be aware that some search engines may provide misleading information</li> </ul>	<ul style="list-style-type: none"> <li>present the data collected in a way that makes it easy for others to understand</li> </ul>	<ul style="list-style-type: none"> <li>Be increasingly aware of the potential dangers in using aspects of IT and know when to alert someone if feeling uncomfortable</li> </ul>

# Computing: Progression of skills

## Code

This concept involves developing an understanding of instructions, logic and sequences.

By the end of Key Stage One	<b>Motion</b>	Control motion by specifying the number of steps to travel, direction and turn.
	<b>Looks</b>	Add text strings, show and hide objects and change the features of an object.
	<b>Sounds</b>	Select sounds and control when they are heard, their duration and volume.
	<b>Draw</b>	Control when drawings appear and set the pen colour, size and shape.
	<b>Events</b>	Specify user inputs (such as clicks) to control events.
	<b>Control</b>	Specify the nature of events (such as a single event or a loop).
	<b>Sensing</b>	Create conditions for actions by waiting for a user input (such as responses to questions like: What is your name?).

## Computing: Progression of skills

	Connect	Communicate	Collect
	This concept involves developing an understanding of how to safely connect with others.	This concept involves using apps to communicate one's ideas.	This concept involves developing an understanding of databases and their uses.
<b>By the end of Key Stage One</b>	<ul style="list-style-type: none"><li>• Participate in class social media accounts.</li><li>• Understand online risks and the age rules for sites.</li></ul>	<ul style="list-style-type: none"><li>• Use a range of applications and devices in order to communicate ideas, work and messages.</li></ul>	<ul style="list-style-type: none"><li>• Use simple databases to record information in areas across the curriculum.</li></ul>

# Computing: Progression of skills

## Code

This concept involves developing an understanding of instructions, logic and sequences.

By the  
end of  
Lower  
Key  
Stage  
Two

<b>Motion</b>	Use specified screen coordinates to control movement.
<b>Looks</b>	Set the appearance of objects and create sequences of changes.
<b>Sounds</b>	Create and edit sounds. Control when they are heard, their volume, duration and rests.
<b>Draw</b>	Control the shade of pens.
<b>Events</b>	Specify conditions to trigger events.
<b>Control</b>	Use IF THEN conditions to control events or objects.
<b>Sensing</b>	Create conditions for actions by sensing proximity or by waiting for a user input (such as proximity to a specified colour or a line or responses to questions).
<b>Variables and lists</b>	Use variables to store a value. Use the functions define, set, change, show and hide to control the variables.

**Operators**  
Use the Reporter operators  
( ) + ( )  
( ) - ( )  
( ) \* ( )  
( ) / ( )  
to perform calculations.

# Computing: Progression of skills

	Connect	Communicate	Collect
	This concept involves developing an understanding of how to safely connect with others.	This concept involves using apps to communicate one's ideas.	This concept involves developing an understanding of databases and their uses.
<b>By the end of Lower Key Stage Two</b>	<ul style="list-style-type: none"> <li>• Contribute to blogs that are moderated by teachers.</li> <li>• Give examples of the risks posed by online communications.</li> <li>• Understand the term 'copyright'.</li> <li>• Understand that comments made online that are hurtful or offensive are the same as bullying.</li> <li>• Understand how online services work.</li> </ul>	<ul style="list-style-type: none"> <li>• Use some of the advanced features of applications and devices in order to communicate ideas, work or messages professionally.</li> </ul>	<ul style="list-style-type: none"> <li>• Devise and construct databases using applications designed for this purpose in areas across the curriculum.</li> </ul>

## Computing: Progression of skills

### Code

This concept involves developing an understanding of instructions, logic and sequences.

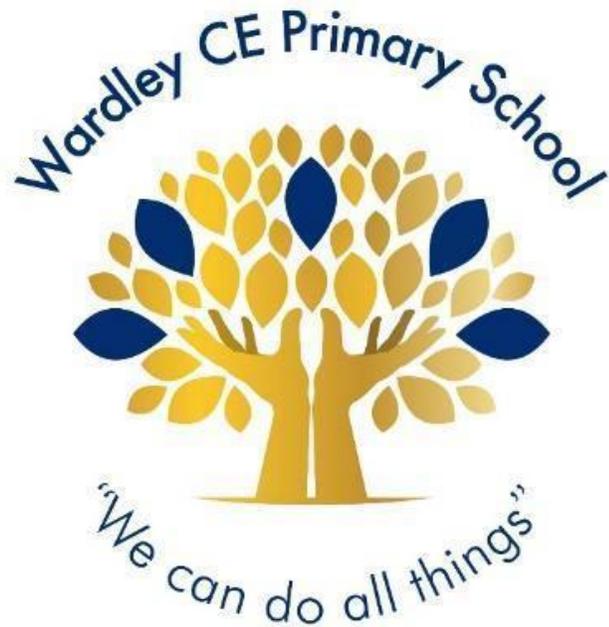
By the  
end of  
Upper  
Key  
Stage  
Two

<b>Motion</b>	Set IF conditions for movements. Specify types of rotation giving the number of degrees.	
<b>Looks</b>	Change the position of objects between screen layers (send to back, bring to front).	
<b>Sounds</b>	Upload sounds from a file and edit them. Add effects such as fade in and out and control their implementation.	
<b>Draw</b>	Combine the use of pens with movement to create interesting effects.	
<b>Events</b>	Set events to control other events by 'broadcasting' information as a trigger.	
<b>Control</b>	Use IF THEN ELSE conditions to control events or objects.	
<b>Sensing</b>	Use a range of sensing tools (including proximity, user inputs, loudness and mouse position) to control events or actions.	
<b>Variables and lists</b>	Use lists to create a set of variables.	
<b>Operators</b> Use the Boolean operators () < () () = () () > () ()and() ()or() Not() to define conditions.	<b>Operators</b> Use the Reporter operators () + () () - () () * () () / ()	<b>Operators</b> Pick Random () to () Join () () Letter () of () Length of () () Mod () This reports the remainder after a division calculation Round () () of ().

# Computing: Progression of skills

	Connect	Communicate	Collect
	This concept involves developing an understanding of how to safely connect with others.	This concept involves using apps to communicate one's ideas.	This concept involves developing an understanding of databases and their uses.
<b>By the end of Upper Key Stage Two</b>	<ul style="list-style-type: none"> <li>• Collaborate with others online on sites approved and moderated by teachers.</li> <li>• Give examples of the risks of online communities and demonstrate knowledge of how to minimise risk and report problems.</li> <li>• Understand and demonstrate knowledge that it is illegal to download copyrighted material, including music or games, without express written permission, from the copyright holder.</li> <li>• Understand the effect of online comments and show responsibility and sensitivity when online.</li> <li>• Understand how simple networks are set up and used.</li> </ul>	<ul style="list-style-type: none"> <li>• Choose the most suitable applications and devices for the purposes of communication.</li> <li>• Use many of the advanced features in order to create high quality, professional or efficient communications.</li> </ul>	<ul style="list-style-type: none"> <li>• Select appropriate applications to devise, construct and manipulate data and present it in an effective and professional manner.</li> </ul>

# Computing Curriculum



## Progression of Vocabulary

Vocabulary is an essential part of teaching and learning at Wardley - vocabulary can unlock a wealth of understanding. As teachers, we consistently use accurate, technical vocabulary, which support pupils' conceptual understanding.

In many instances, vocabulary acts as a label that identifies the concept. To connect a concept with the appropriate term, we begin by introducing and explaining the key term, then unpack the related concept; this makes it more concrete for your pupils, before we repack it and then once again apply the vocabulary label. This ensures that we connect these labels with the concepts that they describe and embed the concept in our pupils' understanding and, subsequently, the terminology will become part of their own vocabulary.

## Computing Year 1

Connect & Communicate		Code				Collect		
Online Safety	Technology outside school	Coding	Maze Explorers	Grouping and Sorting	Lego Builders	Pictograms	Animated Story Books	Spreadsheets
Alert Avatar Button Device File Name Filter Home Screen Icon Login Log out Menu My Work Area Notification Password Private Saving Search Shared Folder Textbox Topic Area Tool bar Typing Writing Template	Computer Technology	Action Algorithm Background Click Code Code blocks Coding Code view Command Debug \ Debugging Design View Event Execute Instruction Object Output Plan Programmer Properties Run Scale Scene Software Sound When Clicked	Algorithm Challenge Command Delete Direction Instruction Left and Right Route Undo Unit	Activities Criteria Describe Equal Groups Less than More than Sort	Algorithm Code Computer Debugging Instructions Machine Program Recipe Sequence	Collect Data Compare Data Pictogram Record Results Title Totals Visual	Animation Background Category Clip-art gallery Copy Drop-down menu E-book Edit Eraser Features Font Sound Overwrite Paint tools Paste Play Mode Redo Save Sound effect Text Undo Voice recording	Button Calculations Cell Clip-art Count tool Data Delete Image Lock cell Move cell Row Select Speak tool Spreadsheet Value

## Computing Year 2

Connect & Communicate		Code	Collect				
Online Safety	Effective Searching	Coding	Questioning	Spreadsheets	Creating pictures	Making Music	Presenting Ideas
<b>Attachment</b> <b>Digital footprint</b> <b>Display Board</b> <b>Email</b> <b>Filter</b> <b>Identifying</b> <b>Internet</b> <b>Personal information</b> <b>Private information</b> <b>Protection</b> <b>Reply</b> <b>Search</b> <b>Secure</b> <b>Sharing</b>	Browser Device Digital Footprint Domain Internet Network Search Engine Web Address Web Page Web Site World Wide Web	Action Algorithm Background Bug Button Click events Collision detection Collision detection action Collision detection event Command Debug\ Debugging Event Execute Image Implement Instructions Interaction Interval Object Object Name Predict Properties Run Scale Scene Sequence Test Text Timer Turtle Object When Clicked When Key Event When Swiped Event	Avatar Binary Tree Data Database Field Information Pictogram Question Record Search Sort	Addition Block graph Cell Coins Column Copy Count tool Cut Data Drag Equals Equals tool Image value Label Paste Price Speak tool Table Toolbox Total	Art Clip-art Diagonal Dilute eCollage Fill Horizontal Impressionism Line Palette Parallel Pointillism Repeating pattern Rotated Stamps Style Surrealism Symmetry Vertical	Bars Beat Compose Note Tune Repeat Sound Effect Soundtrack Speed Tempo Volume	E-book Fact file Fiction Mind Map Multiple-choice Node Non-fiction Presentation Quiz

## Computing Year 3

Connect & Communicate		Code	Collect					
Online Safety	Email	Coding	Spreadsheets	Databases	Touch Typing	Simulations	Graphing	Presenting with Microsoft PowerPoint / Google Slides
<b>Appropriate</b> <b>Blog</b> <b>Inappropriate</b> <b>Internet</b> <b>Password</b> <b>Personal</b> <b>information</b> <b>Permission</b> <b>Reliable Source</b> <b>Reputable</b> <b>source</b> <b>Spoof</b> <b>Verify</b> <b>Vlogs</b> <b>Website</b>	Address Book Attachment BCC – Blind Carbon Copy CC – Carbon Copy Communication Compose Email Inbox Link Mind mapping Node Password Personal Information Save to draft Trusted Contact	Action Alert Algorithm Background Bug Button Click events Code Collision detection event Command Debug\ Debugging Degrees Event Flowchart Implement Input Interval Nest Object Predict Properties Repeat Right-Angle Run Scene Sequence Test Timer Turtle Object	Advanced Mode Bar graph Cell address Data Equals Less than More than More than, less than & Equal tool Pie Chart Quiz tool Spinner tool Table	Binary Tree Branching Database Data Database Debugging	Keys Posture Spacebar Typing	Advantages Analysis Decision Disadvantages Evaluation Modelling Point-of-view Realistic Simulation Solution Unrealistic	Axis Chart Column Data Graph Investigation Row Sorting Survey Tally Chart Title	Animation Audio Border Properties Duration Editing Fill colour Font formatting Layer Media Presentation Presentation Design Preview Review Slide • Slideshow Sound effect Textbox Theme Timing Transition Video WordArt

## Computing Year 4

Connect & Communicate	Code			Collect				
Online Safety	Coding	Hardware Investigators	Logo	Spreadsheets	Writing for Different Audiences	Animation	Effective Searching	Making Music
<b>AdFly</b> <b>Attachment</b> <b>Citation</b> <b>Collaborate</b> <b>Collaborative database</b> <b>Cookies</b> <b>Copyright</b> <b>Data analysis</b> <b>Digital footprint</b> <b>Malware</b> <b>Phishing</b> <b>Plagiarism</b> <b>Ransomware</b> <b>Report</b> <b>SMART rules</b> <b>Software</b> <b>Spam</b> <b>Watermark:</b>	Action Alert Algorithm Background Button Code blocks Command Co-ordinates Debug\ Debugging Design Event Execute Flowchart If' statement 'If/Else' statement Input Nest Object Prompt Implement Predict Repeat Repeat until Run Properties Selection Sequence Timer Variable	Components CPU Graphics Card Hard Drive Hardware Input Motherboard Network Card Output Peripherals RAM Software	Debugging Grid Logo Logo Commands (e.g. FD, BK, RT, LT) Multi Line Mode Pen Down Pen Up Prediction Procedure Repeat Run Speed SETPC SETPS	Average Budget Calculations Chart Column Data Decimal place Equals to tool Format Cell Formula Formula Wizard Line graph Percentage Place value Random number tool Resize Row Spinner tool Timer Totals	Campaign Format Font Genre Opinion Reporter Viewpoint	Animation FPS (Frame Per Second) Frame Onion skinning Pause Stop motion	Balanced view Easter eggs Internet Key words Reliability Results page Search engine	BPM Dynamics Harmonious Melody Pitch Pulse Rhythm: Tempo Texture Synths

## Computing Year 5

Connect & Communicate			Code			Collect		
Online Safety	Concept Maps	Word Processing	Coding	Game Creator	External Devices	Databases	Spreadsheets	3D Modelling
citation collaborate communication copyright creative Commons Licence encrypt identity theft malware ownership PEGI ratings phishing password personal information reliable source SMART rules Spoof Validity	Concept Concept Map Connection Collaborate Heading Sub-Heading Node Presentation Mode Story Mode	Bulleted list Caps lock Caption Copy and paste Copyright Creative commons Cursor Document Font Hyerlink Merge cells Page orientation Formatting Text wrapping Word art	abstraction action algorithm concatenation debugging decomposition efficient event flowchart function input nesting object output physical system properties repeat selection sequence simplify timer variable	Evaluation Feedback Image Instructions Promotion Quest Scene Screenshot Texture Theme	Algorithm Emulator / simulator External device Host Input Qr code Output sensor	Arrange Avatar Chart Collaborative Data Field Database Field Group Record Search Sort Statistics	Rows Data Spreadsheets Columns Formula Format Advance mode Formula bar Formula wizard Totalling tool Variable	2D 3D CAD – Computer aided Design Design brief Net Pattern fill Points

## Computing Year 6

Connect & Communicate	Code		Collect				
Online Safety	Coding	Networks	Text Adventures	Understanding Binary	Blogging	Spreadsheets	Quizzing
Data Analysis Digital Footprint Inappropriate Location sharing Password PEGI rating Phishing Print Screen Screen Time Secure websites Spoof	Action Algorithm Command Concatenation Co-ordinates Debug\ Debugging Decomposition Event Execute\ Run Flowchart Function Input Launch Command Object Output Predict Procedure Properties Repeat Repeat until Selection Sequence Simulation String Tabs Text Adventure Text Object Timer Turtle Object Variable x and y properties	Data DNS (Domain Name Server) Ethernet Hosting Hub\Switch Internet IP address ISP (Internet Service Provider) LAN (Local Area Network) Network Router Search engine WAN (Wide Area Network) Web Page Web server Website WLAN: (Wireless Local Area Network) Wi-Fi: World Wide Web	Debug\ Debugging Function QR Code Repeat Sprite Text Adventure Selection Variables	Binary Bit Decimal Denary Digit Game States Integer Microprocessor Nanotechnology Nibble, Byte, Kilobyte, Megabyte, Gigabyte and Tetrabyte Switch Transistor Variable	Approval Archive Blog Blog post Collaborate Commenting Connections Nodes Vlog	Advanced mode Budget Chart Columns Count (How Many?) Tool Data Dice Tool Expense Format Cell Formula Formula Bar Formula wizard Percentage Probability Profit Rows Spreadsheet	Audience Audio Case-Sensitive Clipart Clone Copy\Paste Database Database Record Database Field Image Image Filter Selfie Statistics Undo\Redo Preview Quiz