



KEY CONCEPTS	YEAR 3	YEAR 4	YEAR 5	YEAR 6
Autumn term	TOPIC: Dance mat	TOPIC: Writing for different	TOPIC: Graphic modelling (Word)	TOPIC: Blogging
Communicate Collect (Y5)	typing-Pupils can identify the 'home row'-Pupils can identify the six 	 Audiences (Word) Pupils explore how font size can affect the impact of a text. Pupils can use their skills in Word to produce a newspaper report. Pupils produce a document for a community campaign. TOPIC: Effective searches Pupils use a search engine effectively to find information. Pupils assess if a source of information is reliable or not. 	 Pupils use clipart images and shapes in Word to create collages. Pupils can demonstrate a variety of skills using the shapes in Word (Wanted Poster). Pupils create a portrait of Henry VIII (cross curricular link to history topic). Pupils can use all skills learnt (copying, pasting, cloning, rotating, resizing, layering etc) to create a birds eye view of the classroom – demonstrating all skills learnt from previous lessons). Pupils can demonstrate 3D design using a website (Roomtodo) TOPIC – Spreadsheets Pupils know what a spreadsheet is and can identify it usefulness. Pupils can locate specific cells on a spreadsheet. 	 Pupils understand how a blog can be used as an informative text. Pupils recognise the features of a blog. Pupils understand how to use a concept map to develop ideas for their blog. Pupils create blog posts about a landmark in London. Pupils assess the effectiveness of their blog and other blogs. Pupils take feedback and further improve their blog. Pupils explore and review existing websites to evaluate their content. They will develop a small understanding of HTML. Pupils take the role of a web designer and use existing websites to help form their own design.





	 Pupils can save work in my folder. Pupils can use <shift>, <caps LOCK> and <space> correctly.</space></caps </shift> Pupils can edit using <backspace>, <delete>, the arrow keys, undo and redo.</delete></backspace> Pupils can select and format text. Pupils can use the change case button. 		 Pupils learn simple formulae to do simple calculations. Pupils can use trial and error to find specific numbers. Pupils can use a spreadsheet to calculate a budget. 	 Pupils develop their understanding of copyright law and how to search, reuse and reference images. Pupils create their own website using Google sites. Pupils use their knowledge of hyperlinks to reference others work within their own website.
<mark>Spring term</mark> Connect Communicate	TOPIC: Emails-Pupils can list a range of different ways to communicatePupils can use 2Connect to highlight the strengths and weaknesses of each method.	Topic – Refer to summer term planning iPads to create stop motion video?	 TOPIC: Creative media Pupils can understand how to hyperlink across multiple slides to create a choice based story. Children can use hyperlinking skills to create an interactive quiz. 	 TOPIC: App design Pupils discuss what an app is and their usefulness in todays society. Using PowerPoint, pupils design the logo for their app following a tutorial. Pupils create a home screen for their app using the





	 Pupils can order the various types of communication that have been used through history. 		 Pupils can use a Microsoft program (Word) to create unique trading cards. Pupils can input and change elements of a program to create an interactive media. 	 design elements from the previous lesson. Pupils design an app using hyperlinking learned in year five. Pupils consider the main features of their app and can demonstrate the features of their app lication to the real world.
Summer term Code	 TOPIC: Programming Textease Turtle Pupils can write commands in the correct order. Pupils can write a variable value where required. Pupils can correct any mistakes. Pupils can use the commands fd, bk, lt, rt to move or rotate the turtle. Pupils can use cs to clear the screen. Pupils 	Topic – Refer to Spring term planning (sequence of lessons isn't focused only on Rapid Router?).	 TOPIC: Programming (Scratch) Pupils can design, write and debug programs that accomplish specific goals including controlling or simulating physical systems, solve problems by decomposing them into smaller parts. Children use sequence, selection and repetition in programs; work with variables and various forms of input and output. Pupils design a maze game. Pupils add a final level, further enhancing the code in a maze game. Pupils add sound effects with a purpose. 	TOPIC: Programming (Scratch) TOPIC: Programming (Kodu part 2)





	can use the repeat command TOPIC: Programming (Scratch)		 Pupils design and program a game within Scratch that uses Boolean operators. TOPIC: Programming (Kodu) Pupils understand the efficient procedures/algorithms that can be used to solve problems and to plan for specific outcomes. Pupils will design and write programs that accomplish specific goals. Pupils solve problems by decomposing them into smaller parts. Pupils use sequence, selection and repetition in programs. Pupils use logical reasoning to explain how a simple algorithm send to detect errors in algorithms and programs. 	
Vocabulary progression	Keyboard Typing Save	Font Bold Italic	Program Copy Paste	
	Folder Shift Caps Lock space bar edit backspace	Underline Search engine Results page Internet Reliability	Shortcut Textbox Spellcheck Layering Open	





delete	Easter Egg	Save	
arrow keys		Save as	
undo	Spring – No key vocabulary	Wrap text	
redo	Summer – No key vocabulary	Clipart	
select		Resize	
format		Format	
change case		Insert	
Uppercase			
lower		Layout	
case		Rotate	
capitals		Resize	
text box		Modelling	
format		2D	
wrap text		3D	
square		Graphics	
<ctrl> key</ctrl>		Design	
control key		Dimensions	
keyboard			
shortcut menu buttons		PowerPoint	
bullet point		Hyperlink	
numbered point		Add/delete	
indent		Slide	
ruler		Format	
align text		Layer	
left		Text box	
right			
centre		Algorithm	
justified		Сору	
show all characters		Paste	
		Import	
Spring term – Vocabulary			
missing			
		Algorithm	
Algorithm		Sprite	





Instructions	Backdrop
Commands	Script
forward (fd)	Block
left (lt)	Backdrop
right (rt)	Coordinates
move turn	Drawing
clear screen (cs)	Cloning
variable	Speech bubble
pen up	Thought Bubble
pen down	Volume
calculation	Stage
Sprite	Costumes
block	Page
command	Rule
background	Tile
backdrop	Condition
green flag	Action
key press	Parameter
background backdrop	Indent
backurop	Parent
	Rule can run
	Idiom
	Pursue
	Consume
	Default
	Conflict
	Earlier rule
	Priority
	Action takes effect
	State
	Transition





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Year 3 / <mark>Year 4</mark> / <mark>Year 5/ <mark>Year 6</mark></mark>			
Code			
Milestone 1:			
Motion – Control motion by specifying the number of steps to travel, direct and	turn – <mark>Year 3</mark>		
Looks – Add text strings, show and hide objects and change the features of an o			
Sound – Select sounds and control when they are heard, their duration and volu			
Draw – Control when drawings appear and set the pen colour, shape and size –			
Events – Specify user inputs (such as clicks) to control events – Year 3			
Control – Specify the nature of events (such as a single event or loop) – Year 3			
Sensing – Create conditions for actions by waiting for a user input (such as respo	onses to questions like: What is your na	ame?) – <mark>Year 4</mark>	
Variables and lists – From year 3 onwards – <mark>Year 3</mark>			
Operators – From year 3 onwards – <mark>Year 3</mark>			
Milestone 2:			
Motion – Use specified screen coordinates to control movement – Year 4+5			
Looks – Set the appearance of objects and create sequence of changes – <mark>Year 4+5</mark> Sound – Create and edit sounds. Control when they are heard, their volume, duration and rests - <mark>Year 4+5</mark>			
Draw – Control the shade of the pens – <mark>Year 3/4</mark>			
Events – Specify conditions to trigger the events – Year 4+5			
Control - Use 'IF THEN' conditions to control events or objects – Year 4+5			
Sensing – Create conditions for actions by sensing proximity or by waiting for a u	iser input (such as proximity to a speci	fied colour or a line or responses to	
questions) – Year 4+5			
Operators – Use the Reporter operators (+ / - / * / /) to perform calculations - –	Year 4+5		
Milestone 3:			
Motion – Set 'IF' conditions for movements. Specify the types of rotation giving	number of degrees – <mark>Year 5<mark>/6</mark></mark>		
Looks – Change the position of objects between screen layers (send to back, brin			
Sound – Uploads sounds from a file and edit them. Add effects such as fade in a		on - <mark>Year 5<mark>/6</mark></mark>	
Draw – Combine the use of pens with movement to create interesting effects –	Year 5 <mark>/6</mark>		





Events – Set events to control other events by 'broadcasting' information as a trigger – Year 5/6
Control - Use 'IF, THEN, ELSE' conditions to control events or objects – Year 5/6
Sensing – Use a range oof sensing tools (including proximity, user inputs, loudness and mouse position) to control events or actions – Year 5 <mark>/6</mark>
Variables and lists – Use lists to create a set of variables – <mark>Year 5/6</mark>
Operators – Use the Boolean operators (< , = , >, and, or, not) to define conditions. Use reporter operators (+,-,*,/) to perform calculations. Also including
(pick random, join, letter, length, mod) – <mark>Year 6</mark>
Connect
Milestone 1
- Participate in class social media accounts – <mark>Not currently runnning</mark>
- Understand online risks and the age rules for sites – <mark>Year 3/4</mark>
Milestone 2
- Contribute to blogs that are moderated by teachers – <mark>Year 6</mark>
- Give examples of the risks posed by online communications – Year 3/4/5/6
- Understand the term 'copyright' – <mark>Year 5<mark>/6</mark></mark>
- Understand that comments made online that are hurtful or offensive are the same as bullying – Year 3/4/5/6
- Understand how online services work – <mark>Year 5<mark>/6</mark></mark>
Milestone 3
- Collaborate with others online on sites approved and moderated by teachers – Year 3/4/5/6
- Give examples of the risks of online communities and demonstrate knowledge of how to minimise risk and report problems - Year 3/4/5/6
- Understand and demonstrate knowledge that it is illegal to download copyrighted material, including music or games, without express written
permission, from the copyright holder - <mark>Year 5/6</mark>
- Understand the effect of online comments and show responsibility and sensitivity when online - Year 3/4/5/6
- Understand how simple networks are set up and used – Year4/5/6
Communicate
Milestone 1
- Use a range of applications and devices in order to communicate ideas, work and messages – Year 3 <mark>/4/5/6</mark>
Milestone 2
- Use some of the advanced features of applications and devices in order to communicate ideas, work or messages professionally - Year4/5/6





Milestone 3 - Choose the most suitable applications and devices for the purpose of communication - Year 5/6
- Use many of the advanced features in order to create high quality, professional or efficient communications - Year 5/6
Collect
Milestone 1
- Use simple databases to record information in areas across the curriculum - Year 3/4
Milestone 2
- Devise and construct databases using applications designed for this purpose in areas across the curriculum – Year4/5/6
Milestone 3
- Select appropriate applications to devise, construct and manipulate data and present it in an effective and professional manner - Year 5/6