Our Computing Curriculum Intent

Our computing curriculum aims to develop *Computational Thinkers and Digital Citizens* so that they are prepared for the challenges of tomorrow. This will mean that they will gather experiences on their journey through Red Hall Primary that will develop knowledge in Digital Literacy (DL), Information Communication Technology (ICT) and Computer Science (CS). As part of the development of children in to becoming good *Digital Citizens*, they will learn about E-Safety and how to stay safe online. This will be at the heart of our Computing curriculum.

Computational thinking is made up of six concepts – Logic, Algorithms, Decomposition, Pattern Recognition, Abstraction and Evaluation. The six concepts are taught through 5 approaches- Tinkering, Creating, Debugging, Persevering and Collaborating. This will form the basis of our approach to teaching computing and ensure that children get a broad and balanced experience in Computing lessons.

Red Hall Computing Overview

Click here to see the KS1 Skill Progression

Click here to see the KS2 Skill Progression

	Year 1					
	Autumn 1	**Autumn 2**	**Spring 1**	**Spring 2**	**Summer 1**	**Summer 2**
Topic	Computer Systems and Networks – Technology around us.	Digital Painting	Digital Writing	Grouping data	Moving a robot	Programming animations
Planning	Click here	Click here	Click here	Click here	Click here	Click here
Key Resources **(Other than those included in packs)**	Paintz.app or purple mash paint tool.	Paintz.app or purple mash paint tool.	Computer Suite access		Bee bots	Scratch Jnr on the iPads
	Year 2					
	Autumn 1	**Autumn 2**	**Spring 1**	**Spring 2**	**Summer 1**	**Summer 2**

Topic	Computing Systems (Unplugged)	Digital Photography	Making Music	Pictograms	Robot Algorithms	Programming Quizzes
Planning	Click here	Click here	Click here	Click here	Click here	Click here
Key Resources (Other than those included in packs)		Pixlr	Chrome Music Lab		Beebots	Scratch Jnr on the iPads

Year 3						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	Connecting computers (Unplugged)	Create an animation	Desktop Publishing	Branching Databases	Micro:bit – Digital flashcard	Events and Actions in programs
Planning	Click here	Click here	Click here	Click here	Click here	Click here
Key Resources (Other than those		Computer Suite Access	Coomputer suite	J2E	Microbit – one between 2	Computer Suite access.

included in packs)						
Year 4						
	Autumn 1	**Autumn 2**	**Spring 1**	**Spring 2**	**Summer 1**	**Summer 2**
Topic	The Internet	Audio Editing	Micro:bit Volcano Animations	Boat Game	Repetition in shapes	Repetition in Games
Planning	Click here	Click here	Click here	Click here	Click here	Click here
Key Resources (Other than those included in packs)		Computer Suite access with microphones OR iPad app – Voice memo	Microbit – one between 2	Computer Suite	Computer Suite or iPads	Computer suite.
Year 5						
	Autumn 1	**Autumn 2**	**Spring 1**	**Spring 2**	**Summer 1**	**Summer 2**
Topic	Computer System and networks	Vector drawing	Video Editing	Data Handling	Space Junk Game	Quizzes
Planning	Click here	Click here	Click here	Click here	Click here	Click here

Key Resources (Other than those included in packs)		Computer Suite	iPads			Computer suite or Laptop
Year 6						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	Internet Communication	3D Modelling	Website Creation	Spreadsheets	Variables	Sensing
Planning	Click here	Click here	Click here	Click here	Click here	Click here
Key Resources (Other than those included in packs)				Computers/ laptops		