

Bakewell Methodist Junior School

Computing

Year Group	A1	A2	Sp1	Sp2	Su1	Su2
Lower KS2 Block A	Online Safety		Programming turtle logo and scratch		Presentation skills	
Lower KS2 Block B		Online Safety		Scratch		Animation
Upper KS2 Block A	Online Safety		Kodu		Spreadsheets	
Upper KS2 Block B		Online Safety		Scratch		Know your Network

Breadth of study

- Design and write programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.
- Use sequence, selections and repetition in programs; work with variables and various forms of input and output; generate appropriate inputs and predicted outputs to test programs.
- Use logical reasoning to explain how a simple algorithm works, detect and correct errors in algorithms and programs.
- 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.
- Describe how internet search engines find and store data; use search engines effectively; be discerning in evaluating digital content; respect individuals and intellectual property; use technology responsibly, securely and safely.
- Select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information.

Threshold Concepts

Code

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

Connect

This concept involves developing an understanding of how to safely connect with others.

Communicate

This concept involves using apps to communicate one's ideas.

Collect

This concept involves developing an understanding of databases and their uses.

Threshold		Milestone 2	Milestone 3	
Concept		LKS2	UKS2	
Сопсерс	Motion	 Use specified screen coordinates to control 	Set IF conditions for movements. Specify types of rotation giving the number of degrees.	
	Looks	and create sequences of	 Change the position of objects between screen layers (send to back, bring to front). 	
	Sound	volume, duration and rests.	 Upload sounds from a file and edit them. Add effects such as fade in and out and control their implementation. 	
Code This concept involves developing an understanding of instructions, logic and sequences.	Draw		 Combine the use of pens with movement to create interesting effects. 	
	Events		 Set events to control other events by 'broadcasting' information as a trigger. 	
	Control	Use IF THEN conditions to	Use IF THEN ELSE conditions to control events or objects.	
	Sensing	for a user input (such as proximity	(including proximity, user inputs,	
	Variables and lists	 Use variables to store a value. 	Use lists to create a set of variables.	
	Operators	() - () () * () () / () to perform calculations.	 Use the Boolean operators () < () () = () () > () ()and() ()or() Not() to define conditions. 	
Connect This concept involves developing an understanding of how to safely connect with others.		moderated by teachers. Give examples of the risks posed by online communications Understand the term 'copyright'. Understand that comments made online that are hurtful or offensive are the same as bullying. Understand how online services work.	 Collaborate with others online on sites approved and moderated by teachers. Give examples of the risks of online communities and demonstrate knowledge of how to minimise risk and report problems. Understand and demonstrate knowledge that it is illegal to download copyrighted material, including music or games, without express written permission, from the copyright holder. 	

		 Understand the effect of online comments and show responsibility and sensitivity when online. Understand how simple networks are set up and used.
Communicate This concept involves using apps to communicate one's ideas.	devices in order to communicate ideas, work or messages professionally.	 Choose the most suitable applications and devices for the purposes of communication. Use many of the advanced features in order to create high quality, professional or efficient communications.
Collect This concept involves developing an understanding of databases and their uses.	using applications designed for this purpose in areas across the	 Select appropriate applications to devise, construct and manipulate data and present it in an effective and professional manner.