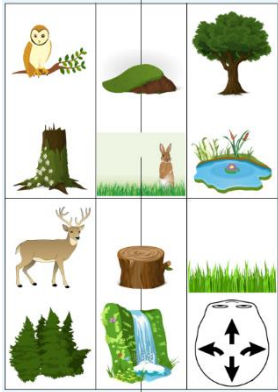
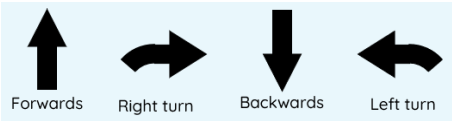


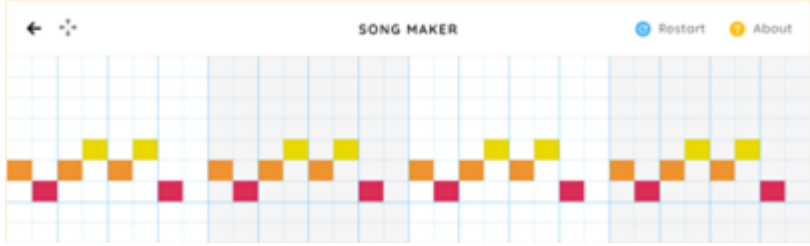
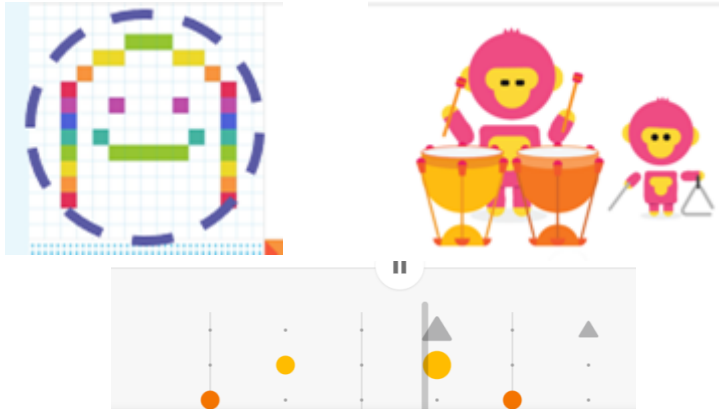
Year 2 Autumn 1: Computing Knowledge Mat

Computer Science - Robots

Key Vocabulary		Images/ diagrams	Core Knowledge
instruction	Information which tells you how to do something or use something.	  	➤ I know how to describe a series of instructions as a sequence ➤ I know that instructions need to be clear and specific ➤ I know that an algorithm is a precise set of ordered instructions which can be turned into code ➤ I know that a prediction is a reasoned decision rather than a guess ➤ I know how to design an algorithm ➤ I know how to debug by breaking down a task into smaller chunks
sequence	The order in which things happen.		
clear	To remove instructions, from the memory of a Bee Bot.		
algorithm	A set of instructions that are created for a computer.		
order	Arranging things in a certain way for it to make the best sense.		
command	Telling something to follow an instruction		
mats	A colourful background to programme Bee Bots on.		
routes	A way of moving from a start point to a destination.		
debugging	Identifying and removing any mistakes that cause unwanted results in an algorithm		
outcome	What happens at the end of the instructions.		

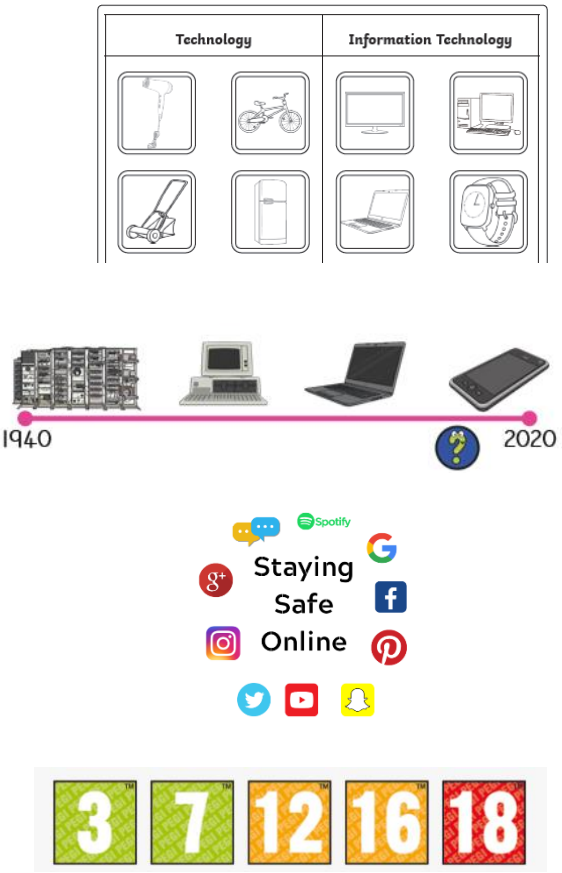
Year 2 Autumn 2: Computing Knowledge Mat

Information technology: Creating Media – making music.

Key Vocabulary		Images/ diagrams	Core Knowledge
rhythm	A pattern of sounds of different lengths.	 	➤ I know that music can make you feel a range of emotions. ➤ ➤ I know that rhythm is a pattern of sounds of different lengths. ➤ ➤ I know that music is made from a series of notes
digital	Digital technologies are electronic systems and resources that help us learn, communicate, play.		
pulse	The steady beat underneath a piece of music.		
pitch	How high or low the sound is.		
duration	The length of time each note is played for.		
note	A pictorial representation of a musical sound		
pattern	Something that is repeated more than one time.		
emotion	The way we feel, think and behave.		

Year 2 Spring 1: Computing Knowledge Mat

Digital Literacy

Key Vocabulary		Images/ diagrams	Core Knowledge
Digital Technology	Any piece of equipment that contains a computer or microcontroller, such as a smartphone, smartwatch or laptop.		- I know the different forms of information (text, images, sound) and understand some are more useful than others - I know information can be used to answer specific questions - I know and understand how digital technology supports our lives at home or school. - I know that anyone can access the internet. - I know that personal information should not be shared online - I know some online sites and games are age-appropriate - I know what to do if I am worried online.
Virtual Reality	Virtual reality is a way of using technology to make someone feel like they are somewhere else.		
Online safety	To protect yourself from harm when working online.		
Information Technology	Technology that creates, stores or exchanges information. It needs a computer to work.		
World Wide Web	An information system of shared web pages on the Internet.		
Stranger	Someone you don't know or who doesn't belong in a specific place		

Year 2 Spring 2: Computing Knowledge Mat

Information technology - Grouping Data

Key Vocabulary		Images/ diagrams	Core Knowledge
data	Information we collect		- I know the different forms of information (text, images, sound) and understand some are more useful than others - I know information can be used to answer specific questions - I know that a tally chart is an effective way of organising data. - I know that an attribute is a property of an object - I know that I can present information using a computer.
attribute	Something in common in a group of objects. Objects can be described and grouped according to attributes.		
Online safety	To protect yourself from harm when working online.		
Tally Chart	A way of recording data in groups of five.		
Pictogram	A way of presenting information using pictures.		
Block Diagram	A way of presenting information gathered using blocks of colour.		

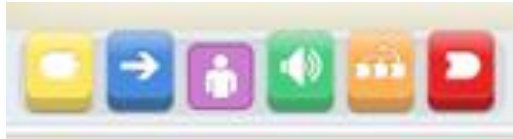
Year 2 Summer 1: Computing Knowledge Mat

Information Technology: Digital Photography

Key Vocabulary		Images/ diagrams	Core Knowledge
photograph	An image of a person, object or view that is made using a camera.	   landscape  portrait	➤ I know which devices take photographs ➤ I know how to improve a photograph ➤ I know I can edit a photograph
camera	An object used to take pictures.		
portrait	When you take a picture holding the device upright.		
landscape	When you take a picture with the device on its side.		
edit	To correct or change.		
subject	The thing you have chosen to take a photograph of.		

Year 2 Summer 2: Knowledge Mat

Computer Science - Introduction To Quizzes

Key Vocabulary		Images/ diagrams	Core Knowledge																										
blocks	A code to cause a specific outcome.	  Quiz design Use this design to help you create an interactive quiz to answer the question "Who lives here?" <table><tr><th>Question</th><th>Background</th><th>Sprite</th><th>1. Start on tap</th><th>2. Yes or No</th><th>3. Stop or change to ____ background?</th></tr><tr><td rowspan="2">Who lives here?</td><td rowspan="2"></td><td></td><td>Tap cat</td><td>Say 'No'</td><td>Stop</td></tr><tr><td></td><td>Tap fish</td><td>Say 'Yes'</td><td>Change to empty room background</td></tr><tr><td rowspan="2">Who lives here?</td><td rowspan="2"></td><td></td><td>Tap cat</td><td>Say 'Yes'</td><td>Change to jungle background</td></tr><tr><td></td><td>Tap fish</td><td>Say 'No'</td><td>Stop</td></tr></table> Task level: Artwork: Algorithms: 	Question	Background	Sprite	1. Start on tap	2. Yes or No	3. Stop or change to ____ background?	Who lives here?			Tap cat	Say 'No'	Stop		Tap fish	Say 'Yes'	Change to empty room background	Who lives here?			Tap cat	Say 'Yes'	Change to jungle background		Tap fish	Say 'No'	Stop	➤ I know how to design an algorithm ➤ I know how to debug by breaking down a task into smaller chunks ➤ I know that an outcome can be the same but be created differently. ➤ I know how to create an algorithm linked to a given design. ➤ I know how to improve my project.
Question	Background		Sprite	1. Start on tap	2. Yes or No	3. Stop or change to ____ background?																							
Who lives here?				Tap cat	Say 'No'	Stop																							
				Tap fish	Say 'Yes'	Change to empty room background																							
Who lives here?				Tap cat	Say 'Yes'	Change to jungle background																							
			Tap fish	Say 'No'	Stop																								
sprite	A small moving character in a video game.																												
code	To create your own project using precise steps.																												
predict	To think about what will happen in a sequence.																												
program	A list of precise instructions that tell a computer what to do.																												
sequence	A list of instructions that must be carried out in order.																												
algorithm	A precise set of instructions that tell a computer what to do.																												
command	A single, simple instruction that you give to a computer.																												
debug	To remove mistakes from a computer program.																												

