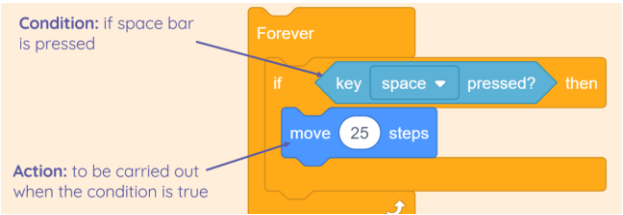
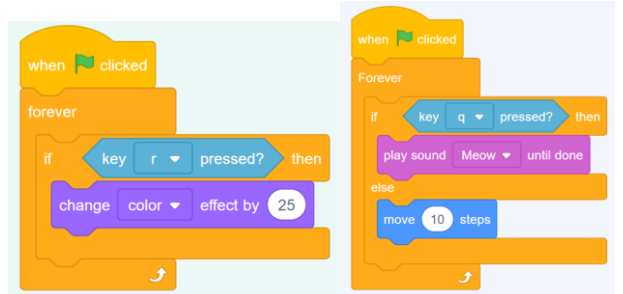
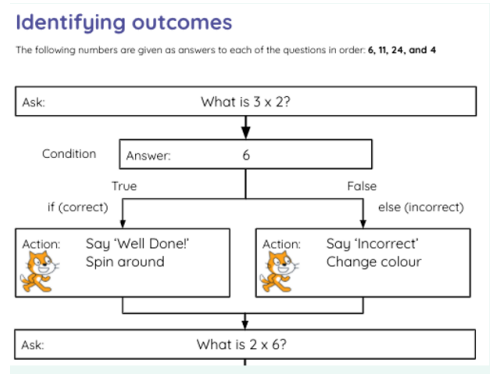


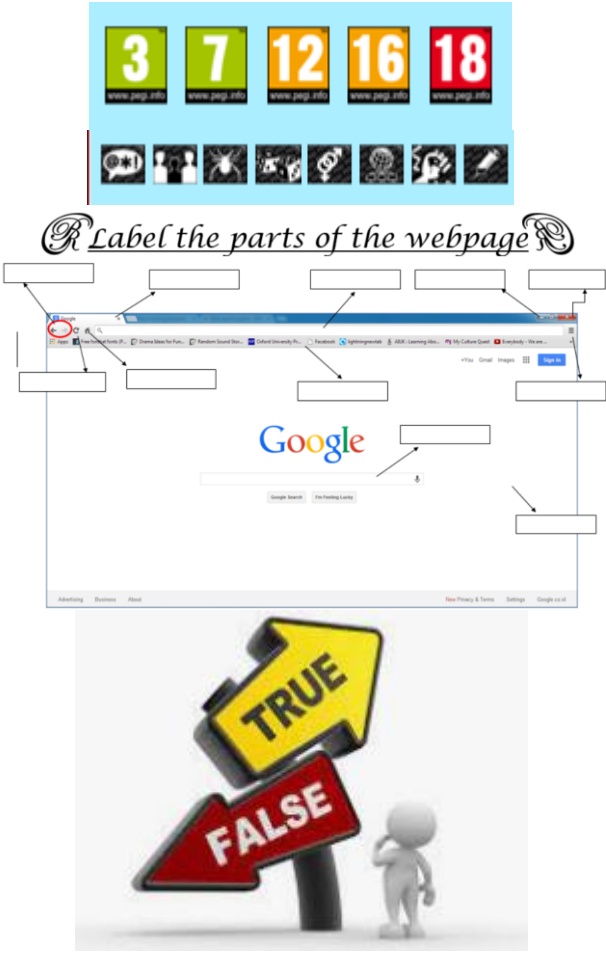
Year 5: Knowledge Mat -Data Bases

Key Vocabulary		Images/ diagrams	Core Knowledge
Data	facts and statistics collected together for reference or analysis		I know what fields, data and records are.
Field	a single data item contained in a column within a database or software.		I know which fields to use to sort data to answer a question. I can order, sort and group data cards.
Flat file database	The data is arranged in rows -- or records -- across columns or fields		I can navigate a computer data base and group into fields and records. I can use AND or a data selection.
Value	The amount recorded in words or numbers		I can use multiple criteria to answer questions about data.
Selection	the effective process of determining the correct data type and method to collect data		I can select charts to visually compare data
Record	Files, documents, and information in an electronic format that are stored on instruments used.		I can explain the benefits of a using a computer to interrogate data

Year 5: Knowledge Mat Selection in Quizzes

Key Vocabulary		Images/ diagrams	Core Knowledge
Conditions	statements that are created by the programmer which evaluates actions in the program and evaluates if it's true or false	 <p>Condition: if space bar is pressed</p> <p>Action: to be carried out when the condition is true</p>	<ul style="list-style-type: none"> ➤ I know what condition means ➤ I know what selection means ➤ I know what an infinite loop is ➤ I know what an algorithm is ➤ I know what a micro-controller is ➤ I know what input and output are ➤ I know what a sequence is ➤ I can identify conditions in a program ➤ I can modify conditions in a program ➤ I can use selection in an infinite loop ➤ I can identify the condition and outcome in an 'if...then... else' statement ➤ I can create a program with different outcomes using selection ➤ I can use selection in an infinite loop to check a condition ➤ I can create a program with different outcomes using selection ➤ I can use a design format to outline a project ➤ I can identify the outcome of user input in an algorithm ➤ I can implement, test and share my programs ➤ I can evaluate and debug my program algorithms
Selection	points where a decision must be made		
Program	a specific set of ordered operations for a computer to perform		
Infinite loop	a piece of code that lacks a functional exit so that it repeats indefinitely.		
Statement	programming language that expresses some action to be carried out		
Design format	a standard way that information is encoded for storage in a computer file	<p>Identifying outcomes</p> <p>The following numbers are given as answers to each of the questions in order: 6, 11, 24, and 4</p> 	
User input	any information or data that is sent to a computer for processing		
Algorithm	an exact list of instructions that conduct specified actions step by step		

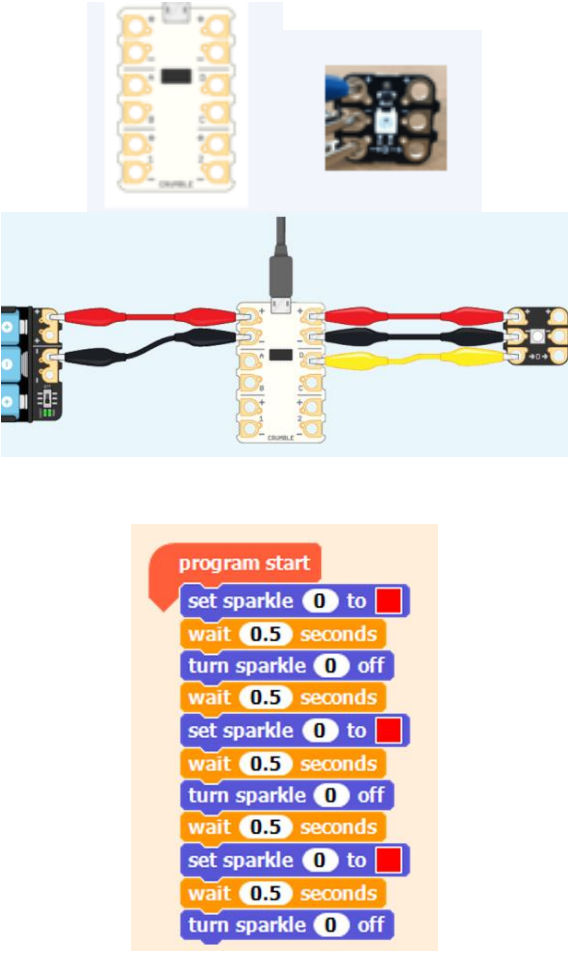
Year 5: Knowledge Mat -Digital Literacy

Key Vocabulary		Images/ diagrams	Core Knowledge
URL	a unique identifier used to locate a resource on the Internet	 <p style="text-align: center;"><i>Label the parts of the webpage</i></p>	<p>I know the names of different parts of the internet.</p> <p>I know what the different parts of a webpage are called.</p> <p>I know how the internet is used to communicate</p> <p>I know that not all online images are suitable</p> <p>I know that webpages are created by people</p> <p>I know how to keep myself safe online</p> <p>I know the protocol of communicating online</p> <p>I know how to identify age-appropriate material</p> <p>I know what a virus is</p> <p>I know what to do if I see inappropriate content.</p> <p>I know a range of useful ways for which technology can be used</p> <p>I know the risks of sharing information online</p> <p>I can evaluate different types of information found on the world wide web</p> <p>I can find useful and reliable websites.</p>
Search bar	Th Elements or space on a web page that we use to enter search queries.		
Search engine	An information retrieval system designed to help find information stored on a computer system		
PEGI	Pan-European Game Information, is a rating system to help consumers make decisions when buying games or apps through the use of age recommendations and content descriptors.		
Webpage	a document written in hypertext (also known as HTML) that you can see online, using a web browser		
Author	the person responsible for writing an article, book, paper, report, or another document		
Etiquette	the unofficial code of policies that encourage good behaviour on the Internet		
E-Safety	being safe on the internet and when using other technologies		
Sharing	is a computer resource made available from one host to others on a computer network		

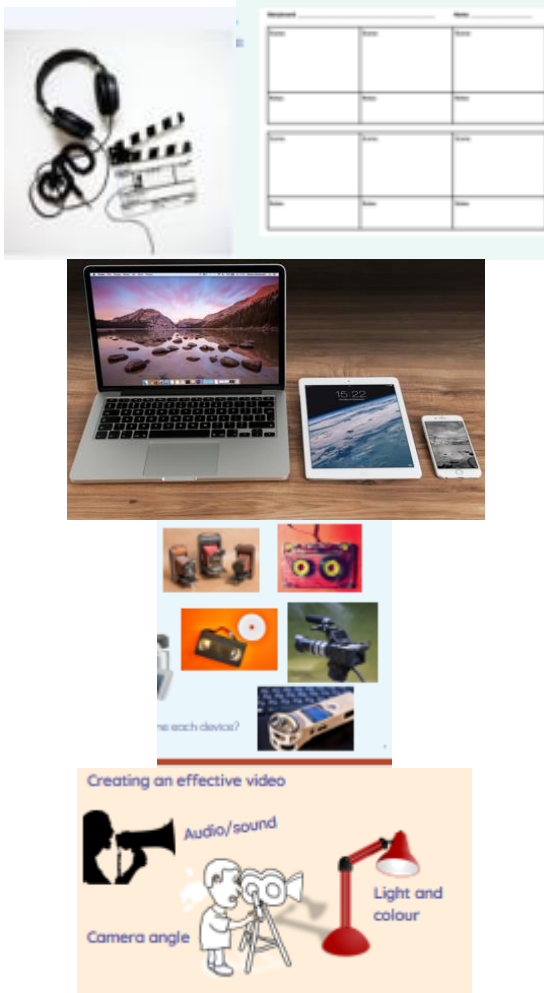
Year 5: Knowledge Mat -Vector Drawing

Key Vocabulary		Images/ diagrams	Core Knowledge
Vector	a pointer or an array of shapes with only one dimension.		<p>I know that a vector drawing is made of shapes.</p>
Resize	to change the height, size or width of (an image, window, etc)		<p>I know that each element of a vector drawing is an object.</p>
Rotate	a feature that lets you turn an image in a clockwise or anti-clockwise direction		<p>I know how to move, resize rotate and suplicate objects.</p>
Alignment	how text or images flows or are placed in relation to the rest of the page		<p>I know how to use zoom tool.</p>
Zoom tool	A tool which allows enlargement or decrease in the view of an image.		<p>I know how to use alinement grids and resize handles.</p>
Resize handles	a tool found in a graphics program that allows users to resize an object.		<p>I know how to modify objects to create effects.</p>
Layers	The way that vector drawings can be reordered to show them behind or in front of another vector drawing		<p>I know how to change the order of layers. I can identify shapes used to make a vector drawing.</p>
Duplicate	To copy and create an exact replica of a vector		<p>I can group elements to create a single object</p>
Object	Any single part of a vector drawing	<p>I can evaluate and suggest improvements to my vector drawings.</p>	

Year 5: Knowledge Mat Selection in Physical Computing

Key Vocabulary		Images/ diagrams	Core Knowledge
Circuit	complete path or combination of interconnected paths for electron flow in a computer		<p>I know what condition means</p> <p>I know what selection means</p> <p>I know what an infinite loop is</p> <p>I know what an algorithm is</p> <p>I know what a micro-controller is</p> <p>I know what input and output are</p> <p>I know what a sequence is</p> <p>I know how to program a micro-controller using an algorithm</p> <p>I know that conditions being met can start an action</p> <p>I know how to identify a condition to start an action (real world)</p> <p>I can build a simple circuit to connect a micro-controller to a computer</p> <p>I can program a micro-controller to light an LED</p> <p>I can use an infinite loop</p> <p>I can connect multiple devices to a micro-controller</p> <p>I can design sequences for output devices</p> <p>I can explain that a condition is true or false</p> <p>I can experiment 'do until loop'.</p> <p>I can identify conditions and actions in my project</p> <p>I can use selection to direct the flow of a program</p> <p>I can describe what my project will do</p> <p>I can create a detailed drawing of my project</p> <p>I can write algorithms to control lights and a motor</p> <p>I can use selection to produce an intended outcome</p> <p>I can test and debug my project.</p>
Micro-controller	a compact integrated circuit designed to control a specific operation in a system		
LED	Light emitting diode		
Connect	a link between a plug or connector into a port or jack		
Sequences	the order in which commands are executed by a computer		
Count controlled loop	count-controlled loop is so called because it uses a counter to keep track of how many times the algorithm has been followed		
'do until loop'	to do something until the condition becomes TRUE		
Intended outcome	The event which is desired to occur		
debug	the process of finding and fixing errors or bugs in the source code of any software		

Year 5: Knowledge Mat -Video Editing

Key Vocabulary		Images/ diagrams	Core Knowledge
Video	Any digital moving picture, which includes a computer file in video formats		I know that video contains visual and audio media.
Audio	Relating to recording, processing, storing and delivering audible sound using electricity.		I know the benefits of audio on a video
Storyboard	an illustrated, step-by-step presentation describing how people will perform a target activity		I know how to safely use and handle devices.
Record	To collect data items for processing by a program		I know why lighting and angle is important in making an effective video
Device	A general-purpose machine that executes instructions for any data		I know how to store, retrieve and export my recording to a computer
Software	instructions that tell a computer what to do		I know how to edit my video
hardware	external and internal equipment that enables input, output, storage, communication, processing, and more		I can plan a video project
Retrieve	Searching for, locating, and returning data		I can name digital devices that record video and sound
Store	a process through which digital data is saved within a data storage device by means of computing technology.		I can choose the most suitable device for recording a project
Edit	to modify (a computer file) by, for example, deleting, inserting, moving, or copying items	I can record video and audio on a device.	
			I can evaluate my video and share my opinions