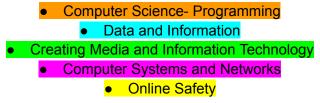
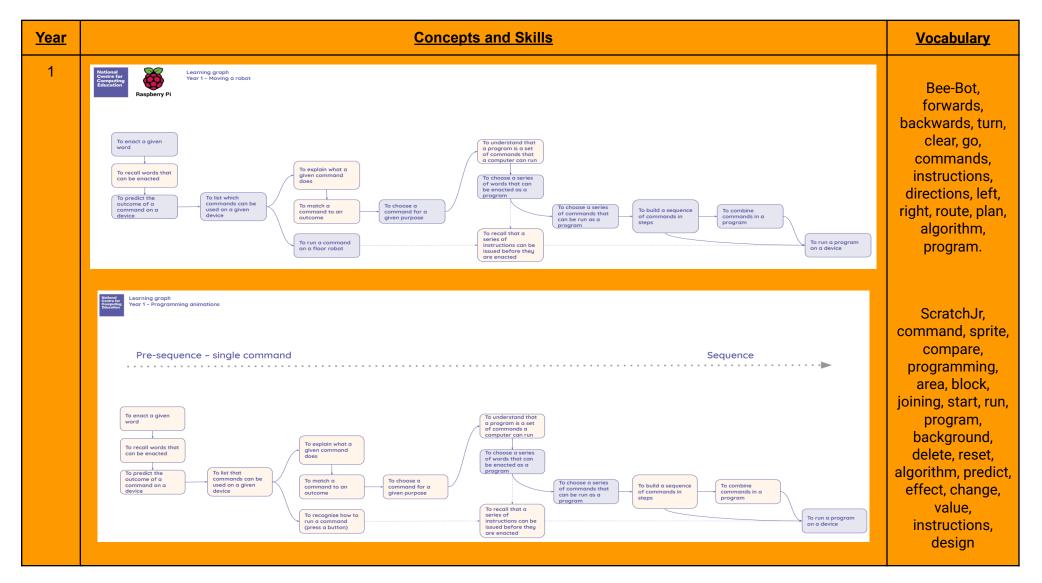
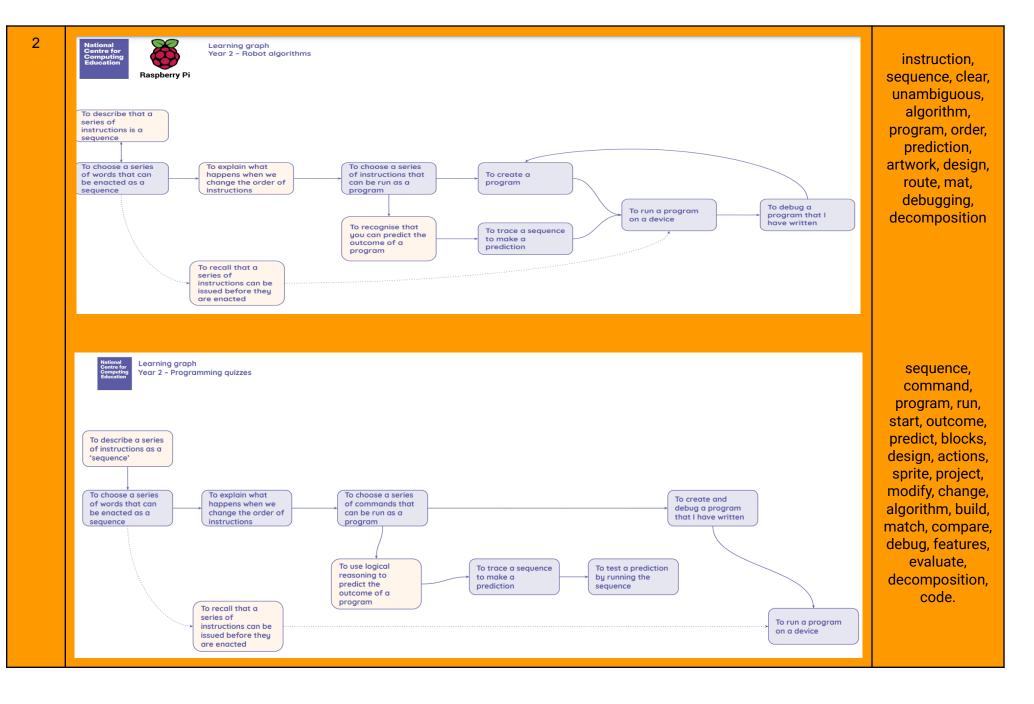
Computing Skills Progression

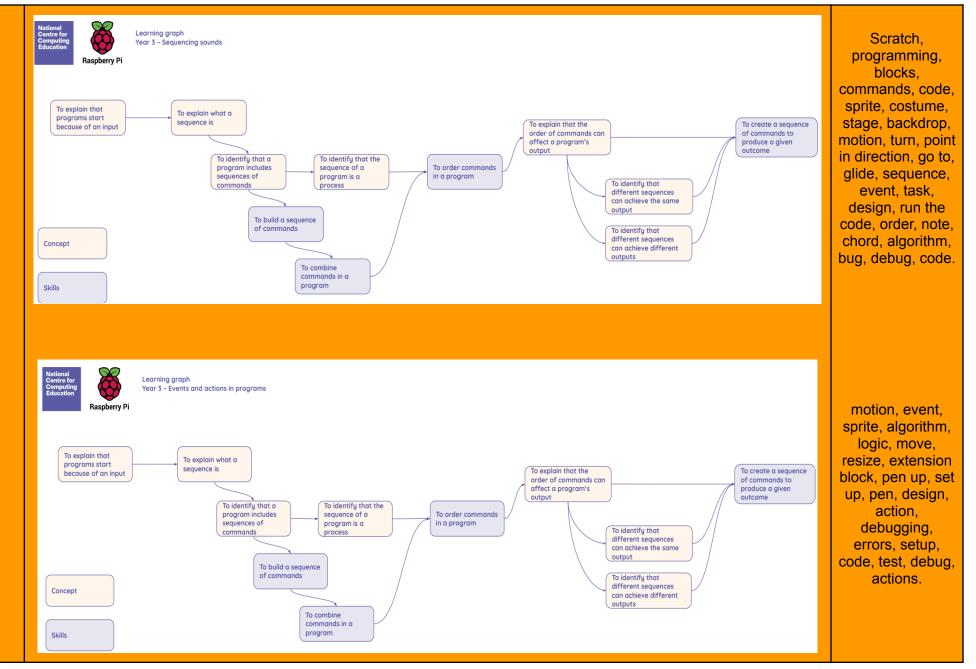
The Computing Curriculum is split into five Key Areas:

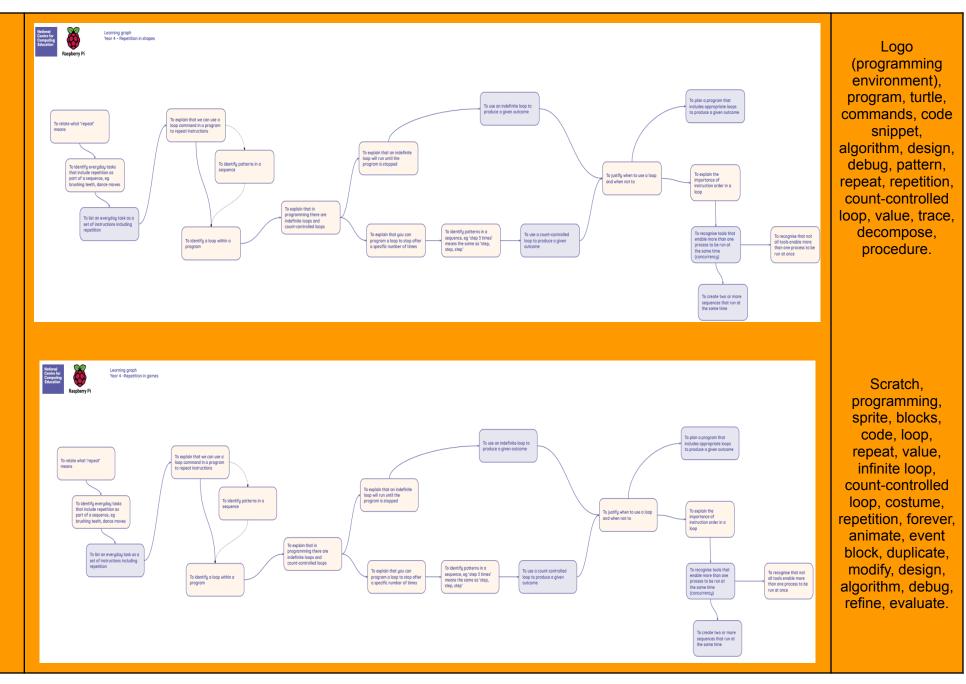


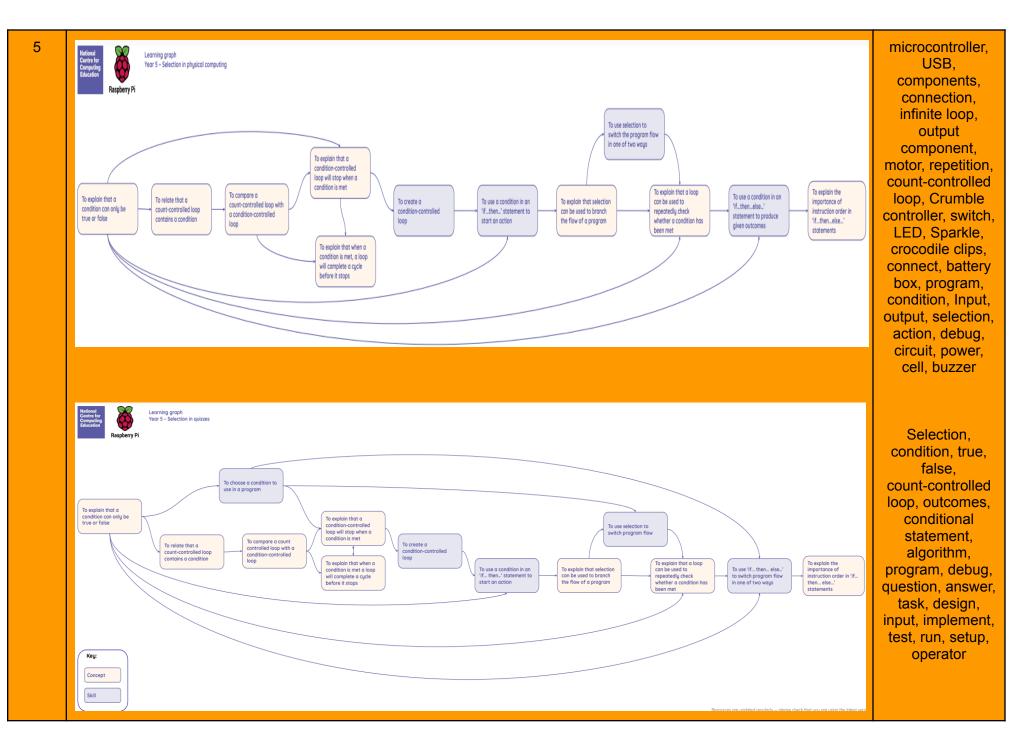
Computer Science- Programming

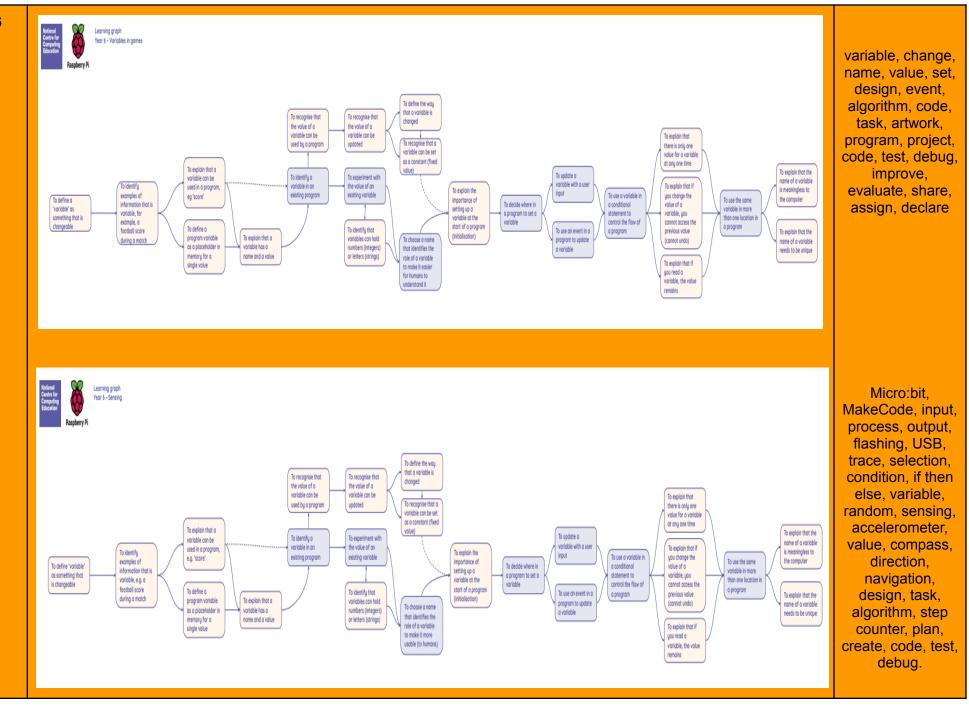




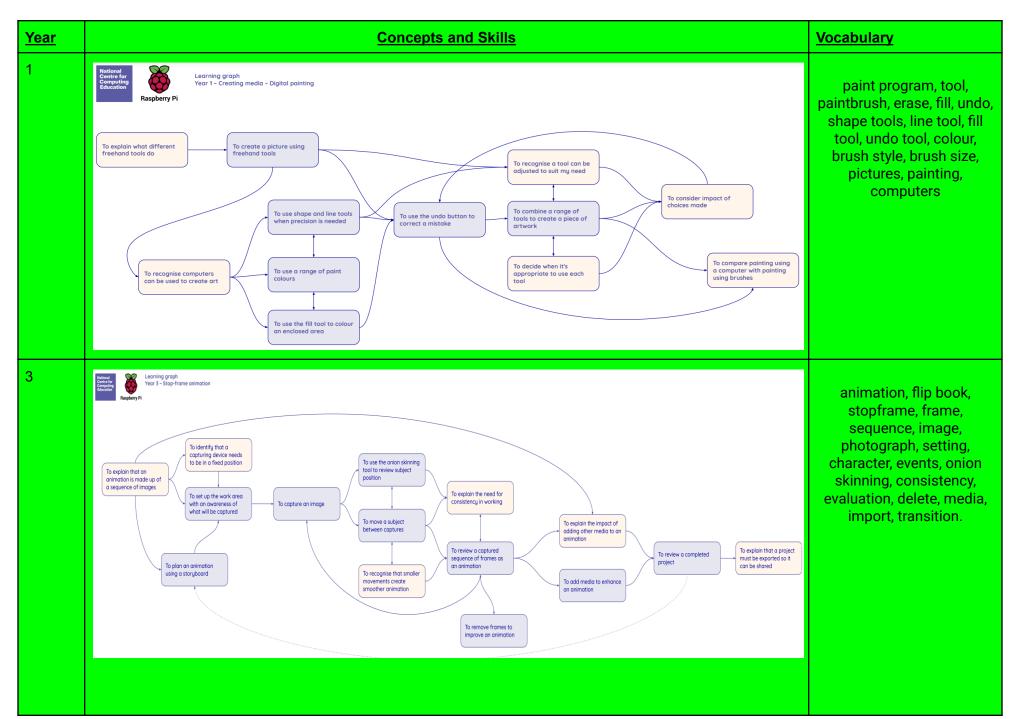


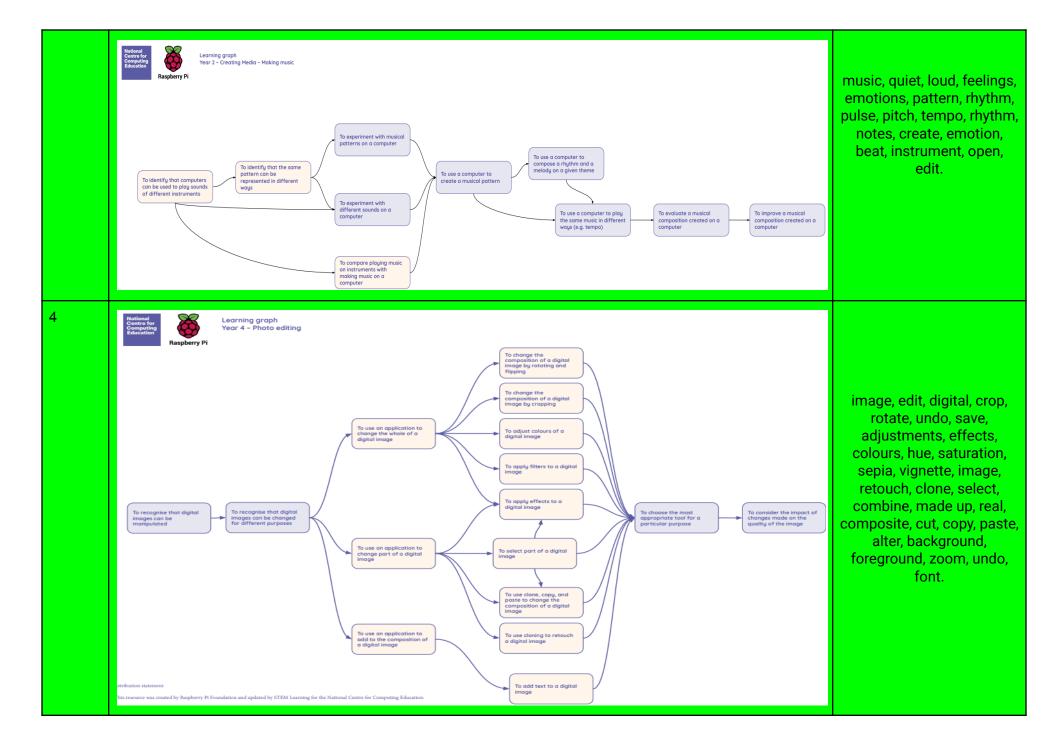


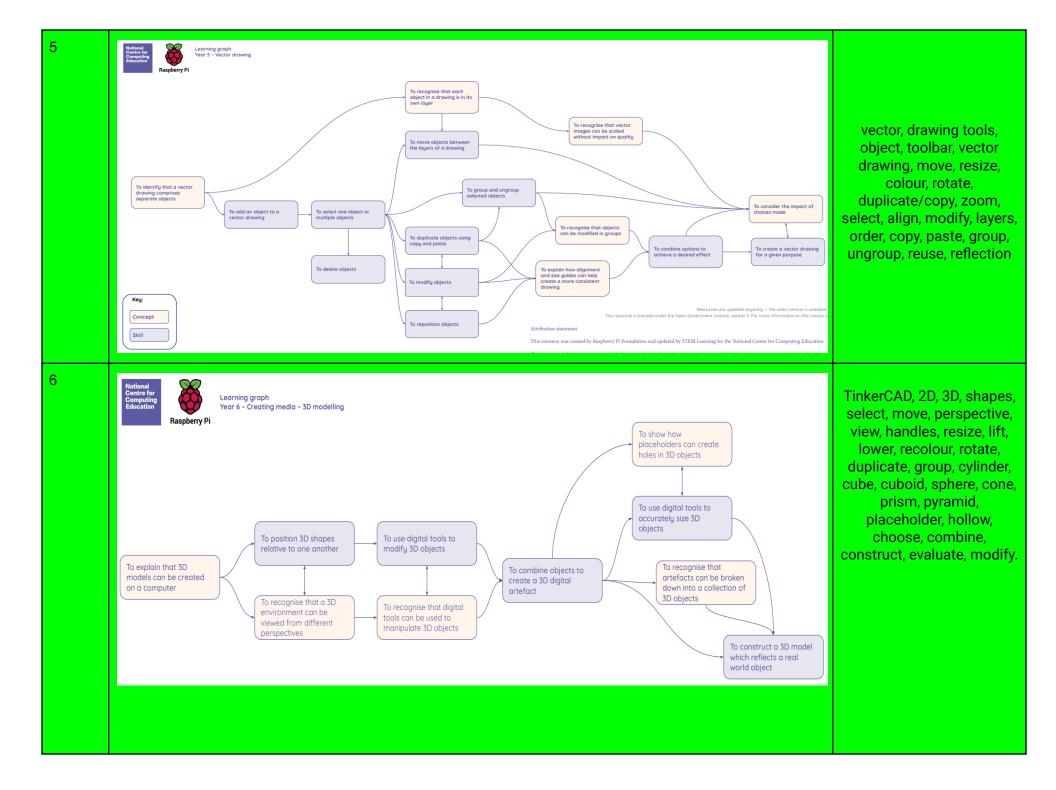


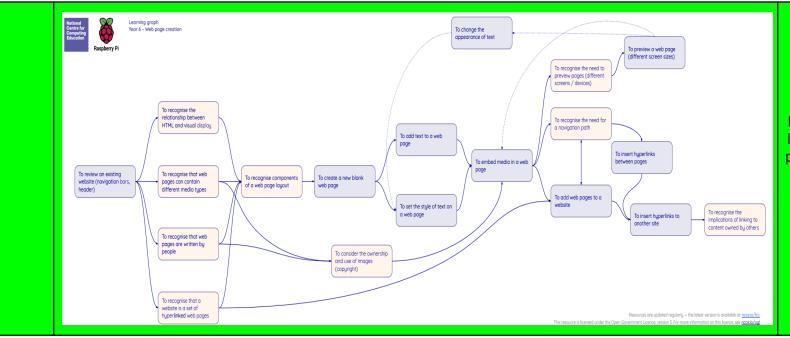


Creating Media





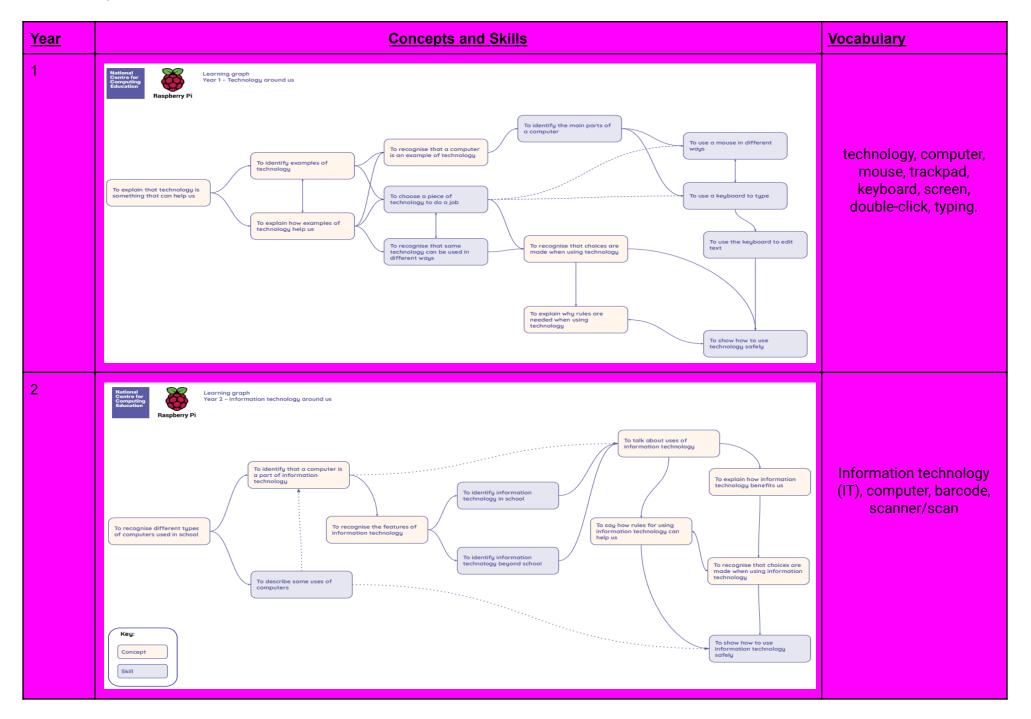


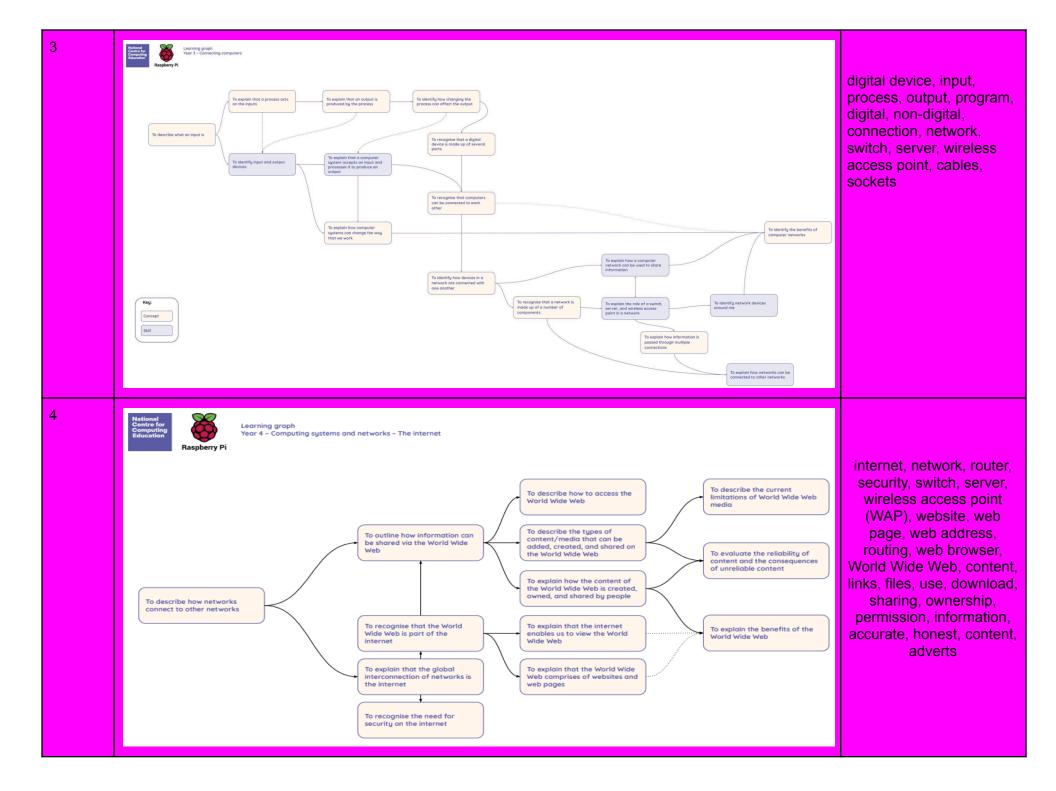


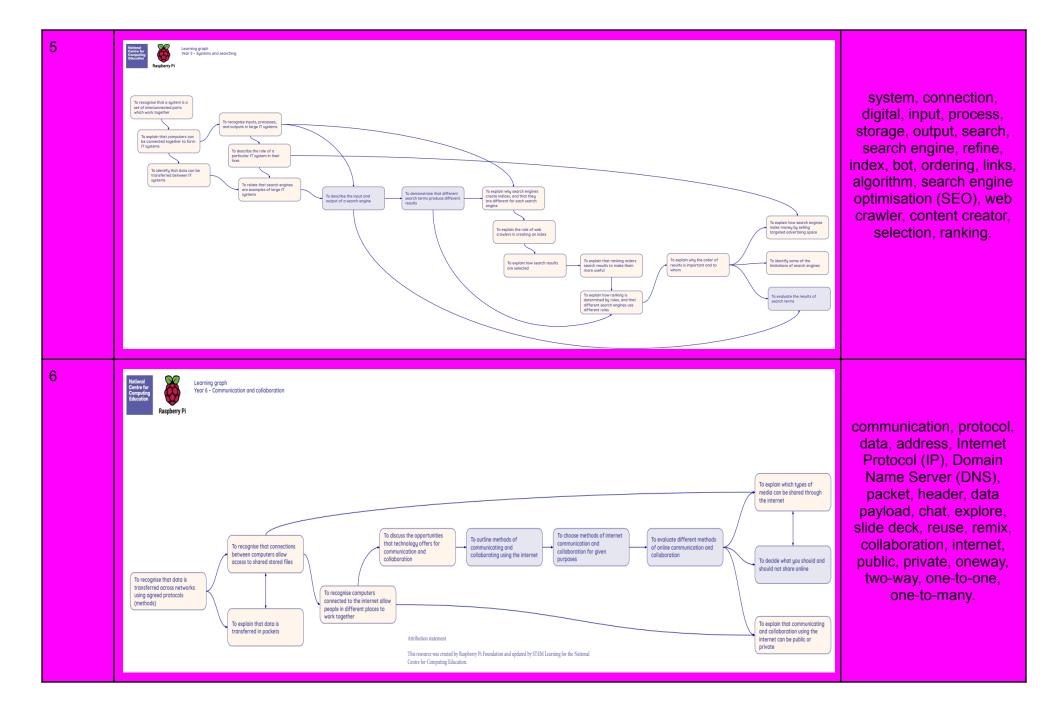
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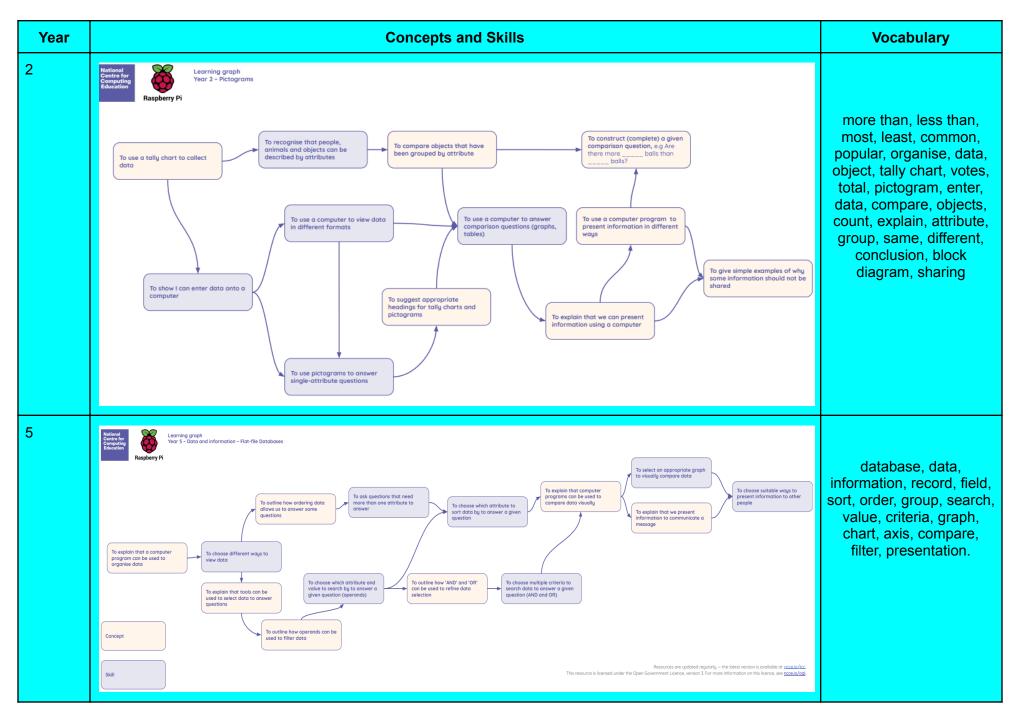
Computer Systems and Networks

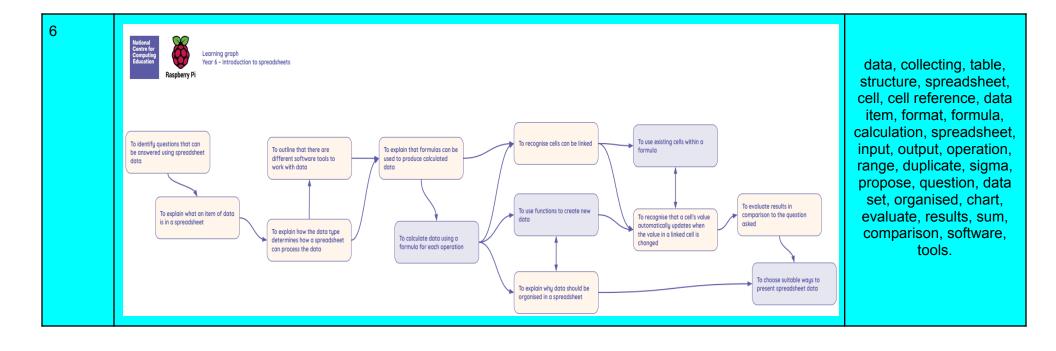






Data and Information





Online Safety

Year	Concepts and Skills	Vocabulary	
1	 all children should be able to: know what 'digital footprint' means; 	Key Vocabulary	
	 know that people can use the information they put online; know that a digital footprint contains information about a person; 	digital device	Any piece of equipment that contains a computer or microcontroller, such as a smartphone, smartwatch or laptop.
	 identify keywords that will give good search results; 	digital footprint	A digital footprint is a trail of information you leave behind when using apps and websites.
	 use a website to search for information; begin to identify possible dangers online; identify websites exitable for their approximation; 	Internet	A large network of computers connected to each other all around the world.
	 identify websites suitable for their age; know when to ask an adult for advice about accessing a website; 	keyword	The words we use when searching on a search engine, such as Google or KidRex.
	 know what to do if a website makes them uncomfortable; talk about what people might want to know about a website; 	online	Going online means connecting to the Internet. When you go online, you can connect to other places and other people.
	 give their opinion about a website; say what they like and dislike about a website; begin to consider who a website could be aimed 	personal information	This is information about yourself that can be used to identify you, such as your name or date of birth. Personal information should be kept private .
	 at; identify unkind online behavior; know what to do if they think someone is 	private	Keeping something private means not sharing information with anyone that you do not know.
	 being unkind to them online; know how to safely search for information online; 	search	You can use the Internet to search for information on a website .
	choose appropriate websites for their age.	website	A collection of web pages grouped together.
2			
2	 all children should be able to: type their name on a piece of work they have created; open a web browser; 	Key Vocabular	Ty If you create something then it belongs to you. This means that you own the copyright and can decide what happens to your creation.
	 recall some of the SMART rules for Internet safety; know who to tell if someone online asks for personal information; understand why email is a good way to communicate. most children will be able to: type their name and the date on a piece of work they have created; choose the correct Safe Search filter when using a search engine; make links between the online and offline world; recall all of the SMART rules for Internet safety; 	email	A way to send and receive digital messages over the Internet .
		Internet	A large network of computers connected to each other all around the world.
		online	Going online means connecting to the Internet. When you go online, you can connect to other places and other people.
		personal information	This is information about yourself that can be used to identify you, such as your name or date of birth. Personal information should be kept private.
		save	Store a file so that you can keep what you have done and open it up again later.
	 recognise which personal information they should keep safe from strangers; 	search engine	A software program that allows you to use the Internet to find information on a website.
	 help to construct an email. 	website	A collection of web pages grouped together.

 Recognise the ways in which digital devices can be distracting. Identify how they feel when others are distracted by their devices. Identify ideal device-free moments for themselves and others. Recognise the kind of information that is private. Understand that they should never give out private information online. Learn that the information they share online leaves a digital footprint or "trail" Explore what information is OK to be shared online Compare and contrast how they are connected to different people and places, in person and on the internet Demonstrate an understanding of how people can connect on the internet Understand what online meanness can look like and how it can make people feel Identify ways to respond to mean words online, using S-T-O-P Explain how giving credit is a sign of respect for people's work Learn how to give credit in their schoolwork for content they use from the internet 	Attention - noticing someone or something as important Community - people who share a common neighbourhood, background, or interests Concentration - giving your full attention to a specific activity Credit - giving recognition to a person that created something Digital footprint - a record of what you do online, including the sites you visit and the things you share Distraction - something that keeps you from giving your full attention Internet - a worldwide network that connects people using computers, phones, or other devices Online - using a computer, phone, or tablet to visit a website or app Permanent - something that lasts forever Private - something that you should keep to yourself Private information - information about you that can be used to identify who you are Respect - showing that you appreciate someone
 Examine both in-person and online responsibilities. Describe the Rings of Responsibility as a way to think about how our behavior affects ourselves and others. Identify examples of online responsibilities to others. Define the term "password" and describe a password's purpose. Understand why a strong password is important. Practice creating a memorable and strong password. Consider how posting selfies or other images will lead others to make assumptions about them. Reflect on the most important parts of their unique identity. Identify ways they can post online to best reflect who they are. Define what a community is, both in person and online. Explain how having norms helps people in a community achieve their goals. Create and pledge to adhere to shared norms for being in an online community. Indentify ways to respond to mean words online, using S-T-O-P. Decide what kinds of statements are OK to say online and which are not. Recognise that photos and videos can be altered digitally. Identify different reasons why someone might alter a photo or video. Analyze altered photos and videos to try to determine why. 	 Advertising - messages or photos that are made to persuade someone to buy a certain product Alter - to change the way something looks, sometimes using a computer or other digital tools Assumption - something that someone thinks is true, but in reality, may or may not be Community - a group of people who share the same interests or goals Digital citizen - someone who uses technology responsibly to learn, create, and participate Empathy - to imagine the feelings that someone else is experiencing Identity - different parts of your culture, experiences, and interests that make you unique Interpret - to understand something based on our point of view Norm - a way of acting that everyone in a community agrees to Password - a secret string of letters, symbols, and numbers that you can use to restrict who can access something digital Persuade - to cause someone to believe something Photo retouching - digital alteration of a photo to enhance the way someone looks (removing of wrinkles, clearing of skin, changing their body, etc.) Phrase - a group of words that go together and are easy to remember Pledge - a promise or an oath that one makes Responsibility - a duty you have to yourself or others Selfie - a picture you take of of yourself, usually with a phone Symbol - a character other than a number or letter, such as #, !, or @.

 their media choices. Use this framework and their emotional responses to evaluate how healthy different types of media choices are. Begin to develop their own definition of a healthy media balance. Identify the reasons why people share information about themselves online. Explain the difference between private and personal information. Explain the difference between private information online. Define the term "digital footprint" and identify the online activities that contribute to it. Identify ways they are and are not in control of their digital footprint. Understand what responsibilities they have for the digital footprints of themselves and others. Define "social interaction" and give an example. Describe the positives and negatives of social interaction in online games. Create an online video game cover that includes guidelines for positive social interaction. Reflect on the characteristics that make someone an upstanding digital citizen. Show ways to be an upstander by creating a digital citizenship superhero comic strip. Define "copyright" and explain how it applies to creative work. Describe their rights and responsibilities as creators. 	Attribute - giving credit to the person who created something, such such as listing the author's name and date, or a citation Copyright - legal protection that a creators have over the things they create Cyberbullying - using digital devices, sites, and apps to intimidate, harm, and upset someone Digital citizen - someone who uses technology responsibly to learn, create, and participate Digital footprint - a record of what you do online, including the sites you visit and the things you post; it can also include things that others post that involve you Digital media - information that comes to us through the internet, often through a tablet, smartphone, or laptop Inference - an educated guess based on evidence intellectual property - the ownership of something you create, giving you a right to how others use it Hardwired - something you are born with Griefing - irritating or angering people in video games by being mean, destructive, or cheating License - a clear way to define the type of copyright creative work has so others know how they can use it Media - all of the ways that large groups of people get and share information (TV, books, internet, newspapers, phones, etc). Media balance - using media in a way that feels healthy and in balance with other life activities (family, friends, school, hobbies, etc). Media choices - time spent watching, listening to, reading, or creating media. Online video game - a video game that is played through the internet Personal information - information about you that cannot be used to identify you because it is also true for many other people (e.g. your hair colour or the city you live in) Playairism - using someone's creative work without providing attribution Private information - information about you that can be used to identify you because it is also true for way the reople to sign up and get access to a website or app Responsibility - a duty you have to yourself or others Social interaction - talking or messaging with people to develop friendship or community.

 Reflect on how balanced they are in their daily lives. Consider what "media balance" means, and how it applies to them. Create a personalised plan for healthy and balanced media use. Define "the curiosity gap." Explain how clickbait uses the curiosity gap to get your attention. Use strategies for avoiding clickbait. Define "gender stereotype" and describe how they can be present online. Describe how gender stereotypes can lead to unfairness or bias. Create an avatar and a poem that show how gender stereotypes impact who they are. Compare and contrast different kinds of online-only friendships. Describe the benefits and risks of online-only friendships. Describe how to respond to an online-only friendships. Describe how the targets of cyberbullying. Identify strategies for dealing with cyberbullying and ways they can be an upstander for those being bullied. Understand the purposes of different parts of an online news page. Identify the parts and structure of an online news article. 	Advertising - messages or photos that are made to persuade someone to buy a certain product Article - A written story in a newspaper, magazine, or online news site Avatar - An image or character that represents a person online Balance - All of the parts are in the correct though not necessarily equal - proportions Benefit - Something positive that results from a situation Bias - An unfair belief about a person or group based on a stereotype Bully - The person who is doing the bullying Bullying - Unwanted and aggressive verbal, social, or physical behaviour towards another Bystander - Someone who sees a bullying or cyberbullying situation, but doesn't do anything to stop it Clickbait - An image or headline that tries to get you to click on it, usually for advertising purposes Commercial - Intended to make money. Curiosity Gap - The desire people have to figure out missing information Cyberbullying - using digital devices, sites, and apps to intimidate, harm, and upset someone Digital media - information that comes to us through the internet, often through a tablet, smartphone, or laptop Empathy - To imagine the feelings that someone else is experiencing Gender stereotypes - Oversimplified ideas about how women and men are or should be Headline - The title of an article, usually printed in big, bold letters at the top Inference - an educated guess based on evidence Media - all of the ways that large groups of people get and share information (TV, books, internet, newspapers, phones, etc). Media balance - using media in a way that feels healthy and in balance with other life activities (family, friends, school, hobbies, etc). Media choices - time spent watching, listening to, reading, or creating media. News - New information about recent or important events Personal information about recent or important events Personal information information about you that can be used to identify you because it is also true for many other people (e.g. your hair colour or the city you live in) Private information information a
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