

- Personal information should be kept private, and not shared with strangers.
- We can adjust our settings to change who can see the information we share. Usually this is private, friends or public.
- Our 'digital footprint' is our online identity. It is built up by our actions, posts and interests online.
- Strangers can use our digital footprints to find out information about us.
- Some strangers might use this information to trick us or act hurtfully.
- Everybody can see the information we put onto the internet, even those we don't want to show. We should be careful as our parents, teachers, friends, police or strangers could see it and have different opinions.

Resources

- SMART Rules
- Google 'Be Internet Legends'
- Interland Online Safety games



Prior Knowledge

Children will have learned about online safety throughout their time at Millfields and will have a good idea of how to protect themselves when worried. They are likely to have a good understanding of the internet, social media and how information can be shared with hundreds or thousands of other people.

/	Кеу	Vocabulary	
	 Digital Persor Persor Setting 	et / Online	
/	Cross cur	ricular links/visits	
		ome more adept and saf	e

Children will become more adept and safe in using the internet for research for a range of topics across the curriculum.

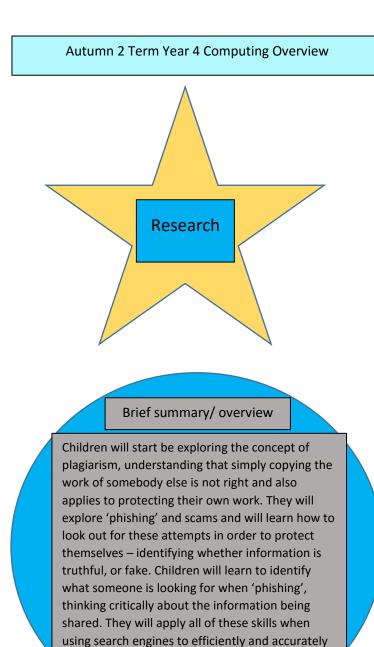
PSHE: Children will learn how online posts could be hurtful to others, and how to protect themselves from sharing personal information.

Key facts

- Taking somebody else's work or information and pretending it is yours is called 'plagiarism'.
- 'Phishing' is when emails or messages are sent pretending to be somebody else. They are usually used to gather personal information.
- People use phishing or false advertisements to scam unwary people on the internet.
- Often, a phishing or scam will look 'too good to be true' and shouldn't be trusted.
- Search engines scan a huge amount of websites to find key words that you are looking for
- You can adjust your search keywords in order to make more effective searches.

Resources

- Google 'Be Internet Legends'
- Interland Online safety game
- Search engines for research



conduct research – Avoiding plagiarised or fake

information.

Prior Knowledge Children will have used search

engines to find information in the past. They may have some understanding or experiences of online scams or 'phishing' from home. They may have an understanding of copyright.

Key Vocabulary

- Search engine
- Efficient
- Link / Hyperlink
- Website/webpage
- Plagiarism
- Copyright
- Phishing
- Scam

Cross curricular links/visits

Search engines can be used to perform research for a wide range of topics.

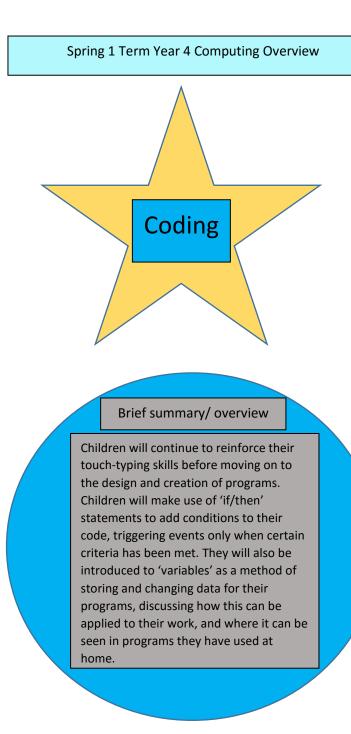
PHSE: Thinking critically to avoid being tricked or hurt online.

Key facts

- Touch typing involves using both hands on the keyboard to type without the need to look for each key.
- If/Then statements wait for a specific event to occur before they trigger.
- Variables store data which can be changed (It 'varies')
- Variables can be accessed by code in order to read, increase, decrease or reset the data inside.
- Variables usually need to be reset once a program ends to avoid any errors or incorrect values.
- The appearance of objects can be changed using appropriate code. This can be linked with if/then statements to change at specific times.

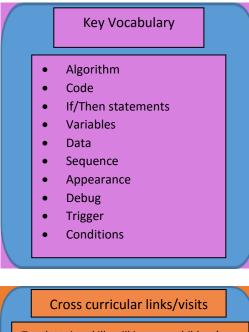
Resources

- Purple Mash
- Laptops
- Paper based designs and planning



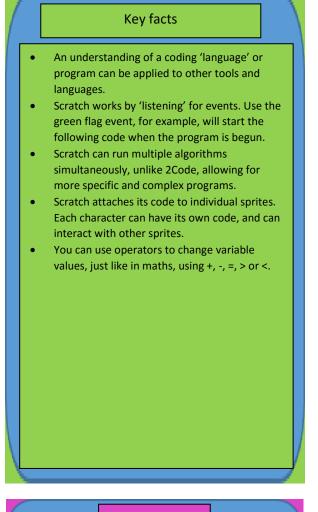
Prior Knowledge

Children will have explored coding in their Computing lessons from previous years. They may have experience of some coding topics explored based on their experiences outside of school, including through videogames or programs they have accessed. Children will have varying levels of ability with touch typing.



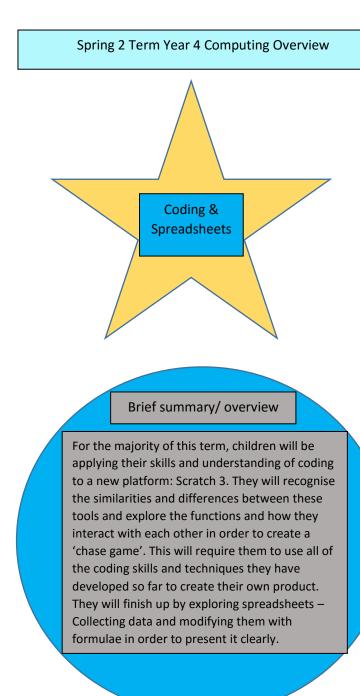
Touch typing skills will improve children's ability to use computers for a range of other topics – Especially typing for English.

Maths – Data in variables can be linked to changing values in Maths, and will be operated upon using the same methods (+, -, x, \div)



Resources

- Scratch 3
- Purple Mash (2Calculate, spreadsheets)
- Laptops

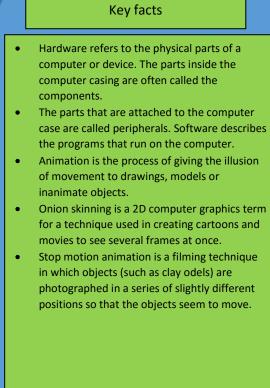


Prior Knowledge

Children have been using 2Code throughout their Computing lessons in school, learning skills that can be applied to Scratch. They may have experience in using Scratch from home. Children will also have some understanding of using simple spreadsheets for collecting and presenting data.

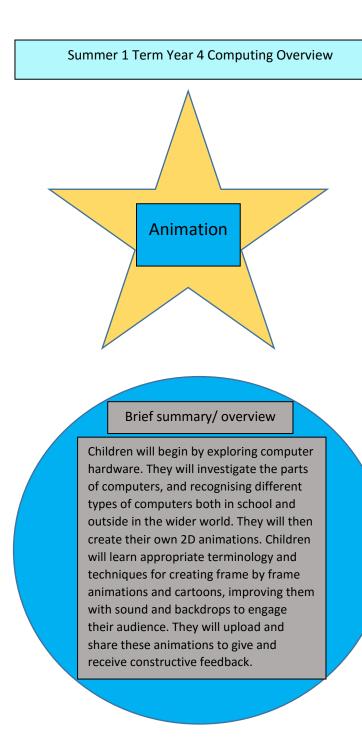
Key Vocabulary Programming language • Sprites / Objects Variables • Conditions / Events . Algorithm • Debug • Variables . Operator • Cross curricular links/visits Maths – Use spreadsheets to store and present data in charts and graphs.

Science – Present findings from experiments using spreadsheets.



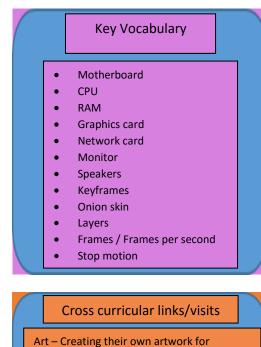
Resources

- Laptops and examples of computer hardware.
- Purple Mash (2Animate)
- Paper flip books
- Examples of animations or cartoons



Prior Knowledge

Children may have some understanding of computer hardware from their experiences outside of school, as well as a basic understanding from key vocabulary and discussion in Computing lessons. Children are likely to have an understanding of what animation is based on their own experiences of it at home.



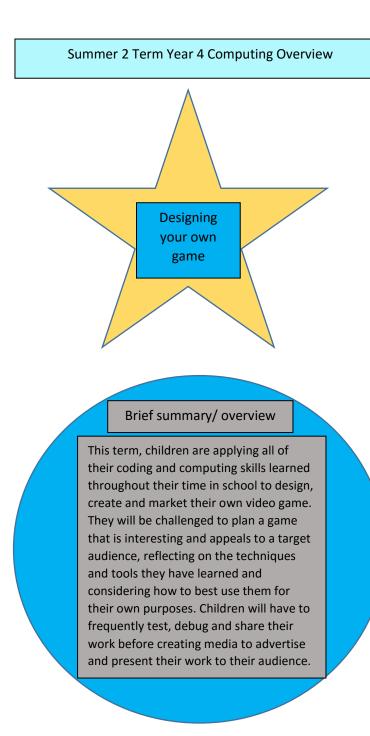
animations English – Animating stories to appeal to a wider audience.

Key facts

- A target audience is the people you want to play or experience your product.
- Debugging involves finding and correcting errors in your code to create a working, successful product.
- Games are advertised over a wide range of different media in order to reach as many people as possible.
- Creating unique and interesting games allows your product to stand out from the crowd, encouraging more people to play.
- Making your game accessible means making it easy for anybody to play, no matter their needs or skill.

Resources

- Laptops
- Scratch 3
- Individual design documents
- Access to previous work and designs
- Research into topics, audiences and successful products



Prior Knowledge

Children have worked with coding, both in 2Code and Scratch, throughout their time in school. They have previously worked on design documents to plan and create their projects. They will have an understanding of audiences and videogames from their Computing lessons and experiences outside of school.

	Key Vocabulary	
	 Algorithm Target audience Debugging Present / Advertise Media Feedback / Review Sprite Graphics Backdrops Animation 	
	Cross curricular links/visits	
•	 English – Creating advertisements and products aimed at target audiences. Art – Select artistic styles and creating interesting pieces to grab people's attention. The games can be used to present a 	

range of learning from different topics.