

Ad	vent		Le	nt			Pe	entecost
We Pro	e are astronauts ogramming on screen	We are games testers Exploring how computer games work	We Ta	e are photographers king better photos	We Re	e are researchers esearching a topic	W C	e are detectives ollecting clues
1. 2. 3. 4.	 Plan instructions and try them out. Children can plan ahead. Work out how to get from the Earth to the Moon – and then on to Mars! Children can plan ahead. Work with Scratch. Control a device, on and off screen, making predictions about the effect their programming will have Use a range of tools in a paint package / image manipulation software to create / modify a picture to communicate an idea. Generate their own work, (with help where appropriate with multimedia) combining text, graphics and sound. Save and retrieve and edit their work. Use Scratch to program your spaceship. Control a device, on and off screen, making predictions about the effect their programming will have 	 work 1. Find out how the addition game works. Children are able to play an adventure game and use a simple simulation, making choices and observing the results. Use websites and demonstrate an awareness of how to manage their journey around them (e.g. using the back/forward button, hyperlinks) 2. Find out how the fish game works. Children are able to play an adventure game and use a simple simulation, making choices and observing the results. Children are able to play an adventure game and use a simple simulation, making choices and observing the results. Use websites and demonstrate an awareness of how to manage their journey around them (e.g. using the back/forward button, hyperlinks) 3. Find out how the tennis game works. Children are able to play an adventure game and use a simple simulation, making choices and observing the results. Use websites and demonstrate an awareness of how to manage their journey around them (e.g. using the back/forward button, hyperlinks) 3. Find out how the tennis game works. Children are able to play an adventure game and use a simple simulation, making choices and observing the results. Use websites and demonstrate an awareness of how to provide the play an adventure game and use a simple simulation, making choices and observing the results. 	1. 2. 3. 4. 5. 6.	 Look at photos and talk about what makes a good photo. Learn about a camera. Show an awareness of a range of inputs to a computer (IWB, mouse touch screen, microphone, keyboard, etc) Take photos on your chosen theme. Show an awareness of a range of inputs to a computer (IWB, mouse touch screen, microphone, keyboard, etc) Use Picasa to organise your photos. Begin to show an awareness that computers can be linked to share resources Edit your photos. Use a range of tools in a paint package / image manipulation software to create / modify a picture to communicate an idea. Pick your best photos for the portfolio. Generate their own work, (with help where appropriate with multimedia) combining text, graphics and sound. Save and retrieve and edit their work. 	1. 2. 3. 4. 5.	 Write questions in a mind map. Add information to your mind map. Use Google to search for information. Children use a search engine to find specific relevant information to use in a presentation for a topic. Use websites and demonstrate an awareness of how to manage their journey around them (e.g. using the back/forward button, hyperlinks) Use other search engines and Simple Wikipedia to search for information. Children use a search engine to find specific relevant information to use in a presentation for a topic. Use websites and demonstrate an awareness of how to manage their journey around them (e.g. using the back/forward button, hyperlinks) Use websites and demonstrate an awareness of how to manage their journey around them (e.g. using the back/forward button, hyperlinks) Create a presentation. Children use a search engine to find specific relevant information to use in a presentation for a topic. Generate their own work, (with help where appropriate with 	1. 2. 3. 4.	 Read and reply to an emate Work collaboratively by share and request information another class or story of the emate of the ematter of the emate of the ematter of the em
6.	 Move your sprite from the Earth to the Moon – and then on to Mars! Control a device, on and off screen, making predictions about the effect their programming will have Generate their own work, (with help where appropriate with multimedia) combining text, graphics and sound. Save and retrieve and edit their work. 	 of now to manage their journey around them (e.g. using the back/forward button, hyperlinks) 4. Find out how the duck shoot game works. Children are able to play an adventure game and use a simple simulation, making choices and observing the results. Use websites and demonstrate an awareness of how to manage their journey around them (e.g. using the back/forward button, hyperlinks) 			6.	 indumedia) combining text, graphics and sound. Save and retrieve and edit their work. They save and retrieve their work. Give your presentation to the class. They save and retrieve their work. Begin to show an awareness that computers can be linked to share resources 	6.	 Begin to show an away that computers can be share resources Review what you have le about email safety. Begin to show an away that computers can be share resources

Learning objectives and skills

	We	e are zoologists Ilecting data about bugs
		neering uata about buys
ail.	1.	Talk about bugs and get ready for
rmation of		your buy nunt!
character.	2.	Hunt for bugs and record what you
reness		find.
linked to	2	Edit and organise your bug photos
	0.	 Show an awareness of a range of
ents.		inputs to a computer (IWB, mouse
y email to		touch screen, microphone, keyboard,
rmation of		 Use a range of tools in a paint
reness		package / image manipulation
linked to		software to create / modify a picture
		to communicate an idea.
ork, (with	4	Use your bug data to create a chart
e with text.		Use a graphing package to collect.
ave and		organise and classify data, selecting
work.		appropriate tools to create a graph
		 and answer questions. They save retrieve and edit their
v email to		Work.
rmation of		
character.	5.	Add bug information using maps.
reness		Enter information into a simple branching database, database or
iii ikeu lu		word processor and use it to answer
		questions.
ords.		They save, retrieve and edit their
ork, (with with		WOIK.
text,	6.	Present your results and discuss
ave and		them.
work.		Generate their own work, (with help where appropriate with multimedia)
a class		combining text, graphics and sound
		Save and retrieve and edit their
reness		work.
linked to		
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reness		
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	1	

History – History of transport Literacy - Explanations RE – God's world – creation. Science - Animals and habitats PRSHE- online safety		 Look at complex games. Children are able to play an adventure game and use a simple simulation, making choices and observing the results. Work out the rules in each other's games. Children are able to play an adventure game and use a simple simulation, making choices and observing the results. Their conversation shows they understand that computers are good at replicating real life events and allowing them to explore contexts Show an awareness of a range of inputs to a computer (IWB, mouse touch screen, microphone, keyboard, etc) 	#BTK and	Links with other subjects	
	History – History of transport	Literacy - Explanations	RE – God's world – creation.	Science- Animals and habitats	PRSHE- online safety
Key Vocabulary	Algorithm	algorithm	camera	Google	address
Algorithm algorithm camera Google address	instructions	Predict	image	mind map	attachment
Algorithm instructions algorithm Predict camera image Google mind map address attachment	Predict	rules	Picasa	presentation	database
Algorithm instructions Predict rulesalgorithm image Picasacamera image presentationGoogle mind map presentationaddress attachment database	problem	Scratch	pixel	Research	evidence
AlgorithmalgorithmcameraGoogleaddressinstructionsPredictimagemind mapattachmentPredictrulesPicasapresentationdatabaseproblemScratchpixelResearchevidence	program	test	portfolio	search	Email
AlgorithmalgorithmcameraGoogleaddressinstructionsPredictimagemind mapattachmentPredictrulesPicasapresentationdatabaseproblemScratchpixelResearchevidenceprogramtestportfoliosearchsearchEmail	robot		theme	search engine	Fact File

	l can
Text and Multimedia	• Generate their own work, (with help where appropriate with multimedia) combining text, grap
Digital Images (Photos, paint, animation)	 Use a range of tools in a paint package / image manipulation software to create / modify a pict Create a simple animation to tell a story.
Sound and music (inc sound recorders)	 Compose music from icons. Produce a simple presentation incorporating sounds the children have captured, or created.
Electronic Communication	Work collaboratively by email to share and request information of another class or story chara
Research and E Safety	 Children use a search engine to find specific relevant information to use in a presentation for a They save and retrieve their work.
Control (algorithms)	 Control a device, on and off screen, making predictions about the effect their programming wil Children can plan ahead.
Handling information (databases and graphs)	 Use a graphing package to collect, organise and classify data, selecting appropriate tools to cre Enter information into a simple branching database, database or word processor and use it to

Scratch

sprite

Science- Animals and habitats
Numeracy- presenting data
chart classification key
data
database
photograph
tally chart

phics and sound. Save and retrieve and edit their work.

ture to communicate an idea.

cter.

Header

safety

<mark>a topic.</mark>

<mark>ll have.</mark>

eate a graph and answer questions. answer questions.

	l can
	 They save, retrieve and edit their work.
Modelling and simulations (spreadsheets, adventure games and simulations)	 Children are able to play an adventure game and use a simple simulation, making choices and of Their conversation shows they understand that computers are good at replicating real life event
Data logging (science and maths)	•
Understanding Technologies (individual technologies)	 Show an awareness of a range of inputs to a computer (IWB, mouse touch screen, microphone,
Understanding Technologies (networks)	 Begin to show an awareness that computers can be linked to share resources
Understanding Technologies (the internet)	 Use websites and demonstrate an awareness of how to manage their journey around them (e.g

observing the results. Its and allowing them to explore contexts

, keyboard, etc)

g. using the back/forward button, hyperlinks)