

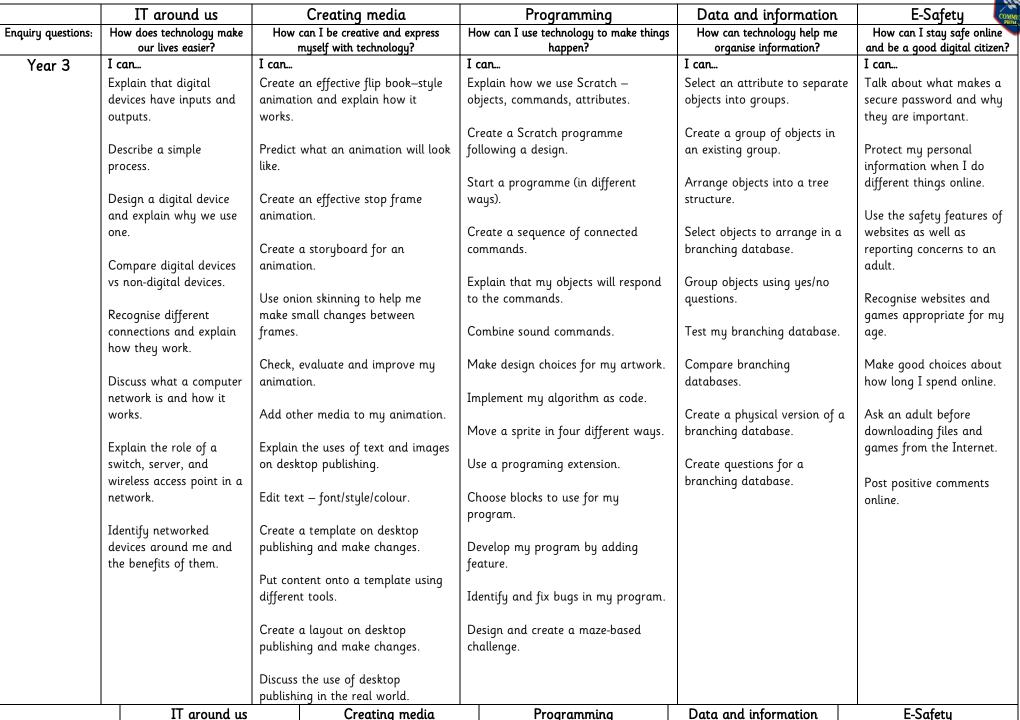




Use a computer responsibly.	Use a keyboard to type words. Explain what the keys do. Identify the tool bar and use bold, italic and underline features as well as change the font. Select text by clicking and dragging. Use undo to remove changes. Explain the differences	Plan 2 programs that get to the same place. Use commands to move a sprite and add and delete a sprite. Compare programming tools. Use a start block and join blocks together, creating an algorithm. Make changes to my program.		Agree and follow sensible e-Safety rules.
IT around us	between typing and writing.	Programming	Data and information	E-Safety
How does technology make our lives easier?	How can I be creative and express myself with technology?	How can I use technology to make things happen?	How can technology help me organise information?	How can I stay safe online and be a good digital citizen?
I can Identify computers and describe their uses. Identify that a computer is part of IT and other examples of IT. Talk about the uses of IT and how we can use it in different ways. Demonstrate how IT devices work together. Talk about the different rules for using IT.	<ul> <li>I can</li> <li>Explain the process of taking a good photograph.</li> <li>Take photos in landscape and portrait.</li> <li>Identify what is wrong with a photograph and retake it to improve.</li> <li>Explore the effect that light has on a photo.</li> <li>Use tools to create changes to images.</li> <li>Recognise when a photo has been changed.</li> </ul>	<ul> <li>Follow and give clear instructions.</li> <li>Use the same instructions to create different algorithms.</li> <li>Plan and use an algorithm to program a sequence on a floor robot.</li> <li>Show the differences in the outcomes between 2 sequences.</li> <li>Predict and change the outcome of a sequence of commands.</li> <li>Design and create my own mat and identify different routes around it.</li> </ul>	Record data in a tally chart and use it to create pictograms. Compare totals in a tally chart. Enter data into a computer. Use pictograms to answer simple questions. Use attributes to help me create my pictograms. Use a computer program to present information in different ways.	I can Explain why I need to keep my password and personal information private. Describe the things that happen online that I must tell an adult about. Talk about why I should go online for a short amount of time. Talk about why it is important to be kind and polite online and in real life.
	Use a computer responsibly. Use a computer responsibly. IT around us How does technology make our lives easier? I can Identify computers and describe their uses. Identify that a computer is part of IT and other examples of IT. Talk about the uses of IT and how we can use it in different ways. Demonstrate how IT devices work together. Talk about the different	Use a computer responsibly.Use a keyboard to type words.Use a computer responsibly.Use a keyboard to type words.Explain what the keys do.Identify the tool bar and use bold, italic and underline features as well as change the font.Select text by clicking and dragging.Use undo to remove changes.Use undo to remove changes.Explain the differences between typing and writing.IT around usCreating mediaHow does technology make our lives easier?How can I be creative and express myself with technology?I canI canIdentify computers and describe their uses.I canIdentify that a computer is part of IT and other examples of IT.Take photos in landscape and portrait.Talk about the uses of IT and how we can use it in different ways.Take photos in landscape and portrait.Demonstrate how IT devices work together.Explore the effect that light has on a photo.Talk about the different rules for using IT.Use tools to create changes to images.	Use a computer responsibly.Use a keyboard to type words.Plan 2 programs that get to the same place.Use a computer responsibly.Explain what the keys do. Identify the tool bar and use bold, italic and underline features as well as change the font.Plan 2 programs that get to the same place.Identify the tool bar and use bold, italic and underline features as well as change the font.Use commands to move a sprite and add and delete a sprite.Identify the tool bar and use bold, italic and underline features as well as change the font.Use commands to move a sprite and add and delete a sprite.Identify to too remove changes.Select text by clicking and dragging.Use a start block and join blocks together, creating an algorithm.IT around usCreating media express myself with technology?ProgrammingHow does technology make our lives easier?How can I be creative and express myself with technology?How can I use technology to make things happen?I canI canExplain the process of taking a good photograph.I canIdentify that a computer is part of IT and other examples of IT.Take photos in landscape and potrait.Use the same instructions to create different algorithms.Identify what is wrong with a thoto we can use it in different ways.Explore the effect that light has on a photo.Plan and use an algorithm to program a sequence on a floor robot.Demonstrate how IT devices work together.Use tools to create changes to images.Show the differences in the outcomes between 2 sequences.Talk about the differen	Use a computer responsibly.words.same place.Explain what the keys do.Identify the tool bar and use bold, italic and underline features as well as change the font.Use commands to move a sprite and add and delete a sprite.Identify the tool bar and use bold, italic and underline features as well as change the font.Use commands to move a sprite and add and delete a sprite.Identify the tool bar and use bold, italic and underline features as well as change the font.Use commands to move a sprite and add and delete a sprite.IT around usSelect text by clicking and dragging.Use undo to remove changes.How does technology make our lives easier?How can I be creative and express myself with technology?Programming How can I use technology to make things happen?Data and informationHow does technology make our lives easier?I can Explain the process of taking a good photograph.I can Follow and give clear instructions.I can. Record data in a tally chart and use it to create pictograms.Identify that a computer is part of IT and other examples of IT.Take photos in landscape and photograph and retake it to improve.Plan and use an algorithm to program a sequence on a floor robot.Compare totals in a tally chart.Demonstrate how IT devices work together.Use tools to create changes to imgrove.Show the differences in the outcomes between 2 sequences.Use a tirbutes to help me create different and change the outcome of a sequence of commands.Use a torbuter me create no for of a sequence of commands.Use a torbuter no compare.



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			who they say they are
Create an	play a rhythm Show how to run my prog	ram.	on the Internet.
pattern.			
	Build a sequence of blocks	I	
Use a com	iter to experiment need.		
with pitch			
	Choose background and		
Refine my	usical pattern on characters for my design.		
a compute			
	Improve my program.		
Create rhu	im on a computer.		
Make cha	es to my work.		







Enquiry questions:	How does technology make our lives easier?	How can I be creative and express myself with technology?	How can I use technology to make things happen?	How can technology help me organise information?	How can I stay safe online and be a good digital citizen?
Year 4	I can	I can	I can	I can	I can
-	Describe how networks	Identify that sound can be	Program a computer by typing	Choose a data set to answer	Choose a secure password
	physically connect to other	recorded – finding the input	commands and change a value	a given question.	and appropriate screen name
	networks.	and output sources.	of a command.	Suggest questions that can	when I am using a website.
	Recognise how networked devices make up the internet.	Use a computer to record audio.	Use a template to draw what I want my program to do.	be answered using a given data set.	Talk about the ways I can protect myself and my friend.
	Explain how information can be shared via the World Wide	Edit and improve my recording.	Write an algorithm to produce a given outcome.	Use a digital device to collect data automatically.	from harm online.
	Web (WWW). Describe how content can be added and accessed on the	Recognise the different parts of creating a podcast project – plan, save and edit.	Test my algorithm in a text- based language.	Understand how a data logger works.	Use the safety features of websites as well as reporting concerns to an adult.
	WWW.		Use a count-controlled loop to	Recognise how a computer	Know that anything I share
	Recognise how the content of	Review and improve my recording.	produce a given outcome.	can help us analyse data.	online can be seen by others
	the World Wide Web is created by people.	Combine audio to enhance my	Modify a count-controlled loop to produce a given outcome.	Use a data logger and analyse the data I have	
	created by people.	podcast project.	to produce a given outcome.	collected.	Choose websites, apps and
	Evaluate the reliability of		Use a procedure in a program		games that are appropriate
	information found on the internet.	Use photo editing software to edit an image – rotate, size,	and explain that a computer can repeatedly call a procedure.		for my age.
	internet.	colour.			Help my friends make good
		Explain how cloning can be used in photo editing.	Design a program that includes count-controlled loops, repetition and debug it.		choices about the time they spend online.
		Use a range of tools to copy between images.	Predict the outcome of a snippet of code and modify.		Talk about why I need to as a trusted adult before
		Create a project that is a combination of other images.	Use both a count-controlled and an infinite loop at once.		downloading files and games from the Internet.
		Evaluate how changes can improve an image.	Use repeated actions.		Comment positively and respectfully online and through text messages.
		anprove an anage.	Modify an infinite loop in a given program.		through text messages.



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		Experiment with shape and line tools.	Identify and modify a condition in a program.	COMMI PRIM:
		Explain each element added to a vector drawing	Use selection in an infinite loop.	
		is an object.	Explain that a program flow can branch according to a	
		Move, resize, rotate and modify an object that is	condition.	
		duplicated to create a new image.	Identify the outcome of user input in an algorithm.	
		Use the zoom tool.	Share my program with others.	
		Explain how alignment	Identify ways the program	
		grids help.	could be improved.	
		Identify each new object creates a new layer.	Extend my program further.	
		Change the order of layers and use layering.to create an image.		
		Group and ungroup objects.		

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#### Computing systems and Creating media Programming Data and information E-Safety networks How does technology make our How can I be creative and How can I use technology to make How can technology help me How can I stay safe online and be **Enquiry questions:** lives easier? express myself with things happen? organise information? a good digital citizen? technology? I can... Year 6 I can... I can... I can... I can... Protect my password and other Collect and enter data into a Recognise that data is Explore a website and Identify information that is a personal information. transferred using agreed spreadsheet. discuss the different media variable and that they can hold methods. used. numbers or letters. Explain the consequences of Suggest how to structure data. sharing too much about myself Know that websites are Explain that internet devices Explain that a variable has a online. written in HTML. name and a value. have addresses and how Explain what data is. computers use these to access Support my friends to protect Recognise the common Recognise that the value of a Choose and apply an websites. themselves and make good variable can be changed. appropriate format to a cell. features of a webpage. choices online, including Identify and explain the main reporting concerns to an adult. Explain which data types can be parts of a data packet and that Suggest media to include Make use of an event to set a it is transferred over a network on my webpage. used in calculations. variable. Explain the consequences of or the internet in this way. spending too much time online Explain why we should use Decide where and when to Construct a formula in a or on a game. copyright-free images. Recognise how to access shared change a variable. spreadsheet. files stored online. Create algorithms for my Explain the consequences to Find copyright-free images. Identify changing inputs myself and others of not Send information over the changes outputs. project. communicating kindly and internet in different ways. Describe what is meant by respectfully. Use variables to extend my Create a formula that includes fair use. a range of cells. Explain that the internet allows game. Protect my computer or device different media to be shared. Add content and preview from harm on the Internet. my own webpage. Use duplication. Apply knowledge of Identify different ways of programming to a new Use a spreadsheet to answer Evaluate how it looks on working together online. environment. different devices. questions including using Identify examples of conditions Explain that the internet enables formulas. effective and different ways of Explain what a navigation in the real world. collaboration. path is and why it is Produce a chart. Use variable (If, then else useful. Compare different methods of statements) and explain the communicating. Create hyperlinks. importance of these. Determine the flow of a Decided when I should and Explain the implications of linking to content owned should not share information on program. the internet as it may not be by others. Use a conditional statement. private.

Computing Curriculum Objective	5		11116
	Add, view and move 3D	<b>F</b>	COMMI INITY PRIM. RY
	shapes in a project.	Experiment with physical inputs.	•
	Resize an object in three	Use a comparison operator (e.g.	
	dimensions.	$\Rightarrow$ =) in an if, then statement.	
		5.	
	Lift, lower and colour 3D	Modify a program to achieve a	
	objects.	different outcome.	
	Rotate, duplicate and	Decide what variables to	
	group 3D objects.	include in a project.	
	Accurately size 3D objects	Design the algorithm for my	
		project.	
	Combine a number of 3D		
	objects.	Create a program based on my	
		design.	
	Analyse a 3D model.	-	
		Test my program against my	
	Construct a 3D model.	design.	
	Explain how the 3D model	Use a range of approaches to	
	could be improved and	find and fix bugs.	
	modify it.		

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