Strand	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	where to go for help and su	use technology safely and nal information private; identify upport when they have concerns n the internet or their online	Pupils should be taught to use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour, identify a range of ways to report concerns about content and contact. Be discerning in evaluating digital content.			
E-safety & E-Sense	I can keep my password private. I can tell you what personal information is. I can tell an adult when I see something unexpected or worrying online. I can talk about why it's important to be kind and polite. I can recognise an age appropriate website. I can agree and follow sensible e-safety rules.	I can explain why I need to keep my password and personal information private. I can describe the things that happen online that I must tell an adult about. I can talk about why I should go online for a short amount of time. I can talk about why it is important to be kind and polite online and in real life. I know that not everyone is who they say they are on the internet.	I can talk about what makes a secure password and why they are important. I can protect my personal information when I do different things online. I can use the safety features of websites as well as reporting concerns to an adult. I can recognise websites and games appropriate for my age. I can make good choices about how long I spend online. I ask an adult before downloading files and games from the internet. I can post positive comments online.	I can choose a secure password when I am using a website. I can talk about the ways I can protect myself and my friends from harm online. I can use the safety features of websites as well as reporting concerns to an adult. I know that anything I post online can be seen by others. I choose websites and games that are appropriate for my age. I can help my friends make good choices about the time they spend online. I can talk about why I need to ask a trusted adult before downloading files and games from the internet. I comment positively and respectfully online.	I protect my password and other personal information. I can explain why I need to protect myself and my friends and the best ways to do this, including reporting concerns to an adult. I know that anything I post online can be seen, used and may affect others. I can talk about the dangers of spending too long online or playing a game. I can explain the importance of communicating kindly and respectfully. I can discuss the importance of choosing an ageappropriate website or game .I can explain why I need to protect my computer or device from harm. I know which resources on the internet I can download and use	I protect my password and other personal information. I can explain the consequences of sharing too much information about myself online. I support my friends to protect themselves and make good choices online, including reporting concerns to an adult. I can explain the consequences of spending too much time online or on a game. I can explain the consequences to myself and others of not communicating kindly and respectfully. I protect my computer or device from harm on the internet.

Pupils should be taught to understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. Create and debug simple programs. Use logical reasoning to predict the behaviour of simple programs.

I can give instructions to my friend and follow their instructions to move around. I can describe what

around.
I can describe what
happens when I press
buttons on a robot.
I can press the buttons in
the correct order to make
my robot do what I want. I
can describe what actions
I will need to do to make
something happen and
begin to use the word
'algorithm'.

I can begin to predict what will happen for a short sequence of instructions. I can begin to use software/apps to create movement and patterns on a screen. I can use the word 'debug' when I correct mistakes when I Program.

I can give instructions to my friend (using forward, backward and turn) and physically follow their instructions. I can tell you the order I need to do things to make something happen and talk about this as an algorithm.
I can program a robot or

I can program a robot or software to do a particular task.

I can look at my friend's program and tell you what will happen.

I can use programming software to make objects move.

I can watch a program execute and spot where it goes wrong so that I can debug it.

Pupils should be taught to design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. Use sequence, selection and repetition in programs; work with variables and various forms of input and output. Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals.

I can break an open-ended problem up into smaller parts. I can put programming commands into a sequence to achieve a specific outcome.
I keep testing my program and can recognise when I need to debug it.
I can use repeat commands. I can describe the algorithm I will need for a simple task. I can detect a problem in an algorithm which could

result in

I can use logical thinking to solve an open-ended problem by breaking it up into smaller parts. I can use an efficient procedure to simplify a program. I can use a sensor to detect a change which can select an action within my program.

I know that I need to keep testing my program while I am putting it together. I can use a variety of tools to create a program. I can recognise an error in a program and debug it. I can recognise that an algorithm will help me sequence more complex programs.

I recognise that using algorithms will also help solve problems in other learning such as maths, science and design technology.

I can decompose a problem into smaller parts to design an algorithm for a specific outcome and use this to write a program.

I can refine a procedure using repeat commands to improve a program.
I can use a variable to increase programming

possibilities.
I can change an input to a program to achieve a different output.
I can use 'if' and 'then' commands to select an

action.
I can talk about how a computer model can provide information about a physical system.

I can use logical reasoning to detect and debug mistakes in a program. I use logical thinking,

imagination and creativity to extend a program.

I can deconstruct a problem into smaller steps, recognising similarities to solutions used before. I can explain and program each of the steps in my algorithm.

I can evaluate the effectiveness and efficiency of my algorithm while I continually test the programming of that algorithm.

I can recognise when I need to use a variable to achieve a required output. I can use a variable and operators to stop a program.

I can use different inputs (including sensors) to control a device or onscreen action and predict what will happen. I can use logical reasoning to detect and correct errors in algorithms and programs.

	Pupils should be taught to use technology purposefully to organise and manipulate digital content.		Pupils should be taught to select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and				
			information				
Handling data	I can talk about the	I can talk about the different	I can talk about the	I can organise data in	I can use a spreadsheet and	I can plan the process	
	different ways in which	ways I use technology to	different ways data can	be different ways.	database to collect and	needed to investigate the	
	information can be	collect information, including	organised.	I can collect data and	record data.	world around me.	
	shown. I can use	a camera, microscope or	I can search a ready-ma	de identify where it could be	I can choose an appropriate	I can select the most	
	technology to collect	sound recorder.	database to answer	inaccurate.	tool to help me collect data.	effective tool to collect	
	information, including	I can make and save a chart or	questions.	I can plan, create and	I can present data in an	data for my investigation.	
	photos, video and	graph using the data I collect.	I can collect data to hel	search a database to	appropriate way.	I can check the data I	
	sound. I can sort	I can talk about the data that	me answer a question.	answer questions.	I can search a database	collect for accuracy and	
	different kinds of	is shown in my chart or graph.	I can add to a database	I can choose the best way	using different operators to	plausibility. I can interpret	
	information and	I am starting to understand a	I can make a branching	to present data to my	refine my search.	the data I collect. I can	
	present it to others.	branching database.	database.	friends.	I can talk about mistakes in	present the data I collect in	
	I can add information	I can tell you what kind of	I can use a data logger t	o I can use a data logger to	data and suggest how it	an appropriate way.	
	to a pictograph and	information I could use to	monitor changes and ca	n record and share my	could be checked.	I use the skills I have	
	talk to you about what	help me investigate a	talk about the informat	on readings with my friends.		developed to interrogate a	
	I have found out.	question.	collected.			database.	
	Pupils should be taught to use technology purposefully to		Pupils should be taught to select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals.				
		use technology purposerum to				s) on a range of digital devices to	
	create digital content		design and create a range	of programs, systems and content tha	t accomplish given goals.		
	create digital content I can be creative with	I can use technology to	design and create a range I can create different	of programs, systems and content tha I can use photos, video and	t accomplish given goals. I can use text, photo, sound	I can talk about audience,	
	create digital content I can be creative with different technology	I can use technology to organise and present my	design and create a range I can create different effects with different	of programs, systems and content than I can use photos, video and sound to create an atmosphere	t accomplish given goals. I can use text, photo, sound and video editing tools to	I can talk about audience, atmosphere and structure	
	I can be creative with different technology tools. I can use	I can use technology to organise and present my ideas in different ways.	design and create a range I can create different effects with different technology tools.	of programs, systems and content than I can use photos, video and sound to create an atmosphere when presenting to different	I can use text, photo, sound and video editing tools to refine my work.	I can talk about audience, atmosphere and structure when planning a particular	
	I can be creative with different technology tools. I can use technology to create	I can use technology to organise and present my ideas in different ways. I can use the keyboard on my	I can create a range I can create different effects with different technology tools. I can combine a	of programs, systems and content that I can use photos, video and sound to create an atmosphere when presenting to different audiences.	I can use text, photo, sound and video editing tools to refine my work. I can use the skills I have	I can talk about audience, atmosphere and structure when planning a particular outcome.	
, co	create digital content I can be creative with different technology tools. I can use technology to create and present my ideas. I	I can use technology to organise and present my ideas in different ways. I can use the keyboard on my device to add, delete and	I can create different effects with different technology tools. I can combine a mixture of text,	of programs, systems and content that I can use photos, video and sound to create an atmosphere when presenting to different audiences. I am confident to explore new	I can use text, photo, sound and video editing tools to refine my work. I can use the skills I have already developed to create	I can talk about audience, atmosphere and structure when planning a particular outcome. I can confidently identify	
dia	I can be creative with different technology tools. I can use technology to create and present my ideas. I can use the keyboard	I can use technology to organise and present my ideas in different ways. I can use the keyboard on my device to add, delete and space text for others to read.	I can create different effects with different technology tools. I can combine a mixture of text, graphics and sound	of programs, systems and content that I can use photos, video and sound to create an atmosphere when presenting to different audiences. I am confident to explore new media to extend what I can	I can use text, photo, sound and video editing tools to refine my work. I can use the skills I have already developed to create content using unfamiliar	I can talk about audience, atmosphere and structure when planning a particular outcome. I can confidently identify the potential of unfamiliar	
nedia	I can be creative with different technology tools. I can use technology to create and present my ideas. I can use the keyboard or a word bank on my	I can use technology to organise and present my ideas in different ways. I can use the keyboard on my device to add, delete and space text for others to read. I can tell you about an online	I can create different effects with different technology tools. I can combine a mixture of text, graphics and sound to share my ideas	of programs, systems and content that I can use photos, video and sound to create an atmosphere when presenting to different audiences. I am confident to explore new media to extend what I can achieve.	I can use text, photo, sound and video editing tools to refine my work. I can use the skills I have already developed to create content using unfamiliar technology.	I can talk about audience, atmosphere and structure when planning a particular outcome. I can confidently identify the potential of unfamiliar technology to increase my	
imedia	create digital content I can be creative with different technology tools. I can use technology to create and present my ideas. I can use the keyboard or a word bank on my device to enter text. I	I can use technology to organise and present my ideas in different ways. I can use the keyboard on my device to add, delete and space text for others to read. I can tell you about an online tool that will help me to share	I can create a range I can create different effects with different technology tools. I can combine a mixture of text, graphics and sound to share my ideas and learning.	of programs, systems and content that I can use photos, video and sound to create an atmosphere when presenting to different audiences. I am confident to explore new media to extend what I can achieve. I can change the appearance of	I can use text, photo, sound and video editing tools to refine my work. I can use the skills I have already developed to create content using unfamiliar technology. I can select, use and	I can talk about audience, atmosphere and structure when planning a particular outcome. I can confidently identify the potential of unfamiliar technology to increase my creativity.	
ıltimedia	create digital content I can be creative with different technology tools. I can use technology to create and present my ideas. I can use the keyboard or a word bank on my device to enter text. I can save information in	I can use technology to organise and present my ideas in different ways. I can use the keyboard on my device to add, delete and space text for others to read. I can tell you about an online tool that will help me to share my ideas with other people.	I can create a range I can create different effects with different technology tools. I can combine a mixture of text, graphics and sound to share my ideas and learning. I can use appropriate	of programs, systems and content that I can use photos, video and sound to create an atmosphere when presenting to different audiences. I am confident to explore new media to extend what I can achieve. I can change the appearance of text to increase its	I can use text, photo, sound and video editing tools to refine my work. I can use the skills I have already developed to create content using unfamiliar technology. I can select, use and combine the appropriate	I can talk about audience, atmosphere and structure when planning a particular outcome. I can confidently identify the potential of unfamiliar technology to increase my creativity. I can combine a range of	
Aultimedia	reate digital content I can be creative with different technology tools. I can use technology to create and present my ideas. I can use the keyboard or a word bank on my device to enter text. I can save information in a special place and	I can use technology to organise and present my ideas in different ways. I can use the keyboard on my device to add, delete and space text for others to read. I can tell you about an online tool that will help me to share my ideas with other people. I can save and open files on	I can create a range I can create different effects with different technology tools. I can combine a mixture of text, graphics and sound to share my ideas and learning. I can use appropriate keyboard commands	of programs, systems and content that I can use photos, video and sound to create an atmosphere when presenting to different audiences. I am confident to explore new media to extend what I can achieve. I can change the appearance of text to increase its effectiveness.	I can use text, photo, sound and video editing tools to refine my work. I can use the skills I have already developed to create content using unfamiliar technology. I can select, use and combine the appropriate technology tools to create	I can talk about audience, atmosphere and structure when planning a particular outcome. I can confidently identify the potential of unfamiliar technology to increase my creativity. I can combine a range of media, recognising the	
Multimedia	create digital content I can be creative with different technology tools. I can use technology to create and present my ideas. I can use the keyboard or a word bank on my device to enter text. I can save information in a special place and retrieve it	I can use technology to organise and present my ideas in different ways. I can use the keyboard on my device to add, delete and space text for others to read. I can tell you about an online tool that will help me to share my ideas with other people.	I can create different effects with different technology tools. I can combine a mixture of text, graphics and sound to share my ideas and learning. I can use appropriate keyboard commands to amend text on my	of programs, systems and content that I can use photos, video and sound to create an atmosphere when presenting to different audiences. I am confident to explore new media to extend what I can achieve. I can change the appearance of text to increase its effectiveness. I can create, modify and	I can use text, photo, sound and video editing tools to refine my work. I can use the skills I have already developed to create content using unfamiliar technology. I can select, use and combine the appropriate technology tools to create effects that will have an	I can talk about audience, atmosphere and structure when planning a particular outcome. I can confidently identify the potential of unfamiliar technology to increase my creativity. I can combine a range of media, recognising the contribution of each to	
Multimedia	reate digital content I can be creative with different technology tools. I can use technology to create and present my ideas. I can use the keyboard or a word bank on my device to enter text. I can save information in a special place and	I can use technology to organise and present my ideas in different ways. I can use the keyboard on my device to add, delete and space text for others to read. I can tell you about an online tool that will help me to share my ideas with other people. I can save and open files on	I can create a range I can create different effects with different technology tools. I can combine a mixture of text, graphics and sound to share my ideas and learning. I can use appropriate keyboard commands to amend text on my device, including	of programs, systems and content that I can use photos, video and sound to create an atmosphere when presenting to different audiences. I am confident to explore new media to extend what I can achieve. I can change the appearance of text to increase its effectiveness. I can create, modify and present documents for a	I can use text, photo, sound and video editing tools to refine my work. I can use the skills I have already developed to create content using unfamiliar technology. I can select, use and combine the appropriate technology tools to create effects that will have an impact on others.	I can talk about audience, atmosphere and structure when planning a particular outcome. I can confidently identify the potential of unfamiliar technology to increase my creativity. I can combine a range of media, recognising the contribution of each to achieve a particular	
Multimedia	create digital content I can be creative with different technology tools. I can use technology to create and present my ideas. I can use the keyboard or a word bank on my device to enter text. I can save information in a special place and retrieve it	I can use technology to organise and present my ideas in different ways. I can use the keyboard on my device to add, delete and space text for others to read. I can tell you about an online tool that will help me to share my ideas with other people. I can save and open files on	I can create a range I can create different effects with different technology tools. I can combine a mixture of text, graphics and sound to share my ideas and learning. I can use appropriate keyboard commands to amend text on my device, including making use of a	of programs, systems and content that I can use photos, video and sound to create an atmosphere when presenting to different audiences. I am confident to explore new media to extend what I can achieve. I can change the appearance of text to increase its effectiveness. I can create, modify and present documents for a particular purpose.	I can use text, photo, sound and video editing tools to refine my work. I can use the skills I have already developed to create content using unfamiliar technology. I can select, use and combine the appropriate technology tools to create effects that will have an impact on others. I can select an appropriate	I can talk about audience, atmosphere and structure when planning a particular outcome. I can confidently identify the potential of unfamiliar technology to increase my creativity. I can combine a range of media, recognising the contribution of each to achieve a particular outcome.	
Multimedia	create digital content I can be creative with different technology tools. I can use technology to create and present my ideas. I can use the keyboard or a word bank on my device to enter text. I can save information in a special place and retrieve it	I can use technology to organise and present my ideas in different ways. I can use the keyboard on my device to add, delete and space text for others to read. I can tell you about an online tool that will help me to share my ideas with other people. I can save and open files on	I can create a range I can create different effects with different technology tools. I can combine a mixture of text, graphics and sound to share my ideas and learning. I can use appropriate keyboard commands to amend text on my device, including making use of a spellchecker.	of programs, systems and content that I can use photos, video and sound to create an atmosphere when presenting to different audiences. I am confident to explore new media to extend what I can achieve. I can change the appearance of text to increase its effectiveness. I can create, modify and present documents for a particular purpose. I can use a keyboard confidently	I can use text, photo, sound and video editing tools to refine my work. I can use the skills I have already developed to create content using unfamiliar technology. I can select, use and combine the appropriate technology tools to create effects that will have an impact on others.	I can talk about audience, atmosphere and structure when planning a particular outcome. I can confidently identify the potential of unfamiliar technology to increase my creativity. I can combine a range of media, recognising the contribution of each to achieve a particular	
Multimedia	create digital content I can be creative with different technology tools. I can use technology to create and present my ideas. I can use the keyboard or a word bank on my device to enter text. I can save information in a special place and retrieve it	I can use technology to organise and present my ideas in different ways. I can use the keyboard on my device to add, delete and space text for others to read. I can tell you about an online tool that will help me to share my ideas with other people. I can save and open files on	I can create a range I can create different effects with different technology tools. I can combine a mixture of text, graphics and sound to share my ideas and learning. I can use appropriate keyboard commands to amend text on my device, including making use of a spellchecker. I can evaluate my	of programs, systems and content that I can use photos, video and sound to create an atmosphere when presenting to different audiences. I am confident to explore new media to extend what I can achieve. I can change the appearance of text to increase its effectiveness. I can create, modify and present documents for a particular purpose. I can use a keyboard confidently and make use of a spellchecker	I can use text, photo, sound and video editing tools to refine my work. I can use the skills I have already developed to create content using unfamiliar technology. I can select, use and combine the appropriate technology tools to create effects that will have an impact on others. I can select an appropriate online or offline tool to	I can talk about audience, atmosphere and structure when planning a particular outcome. I can confidently identify the potential of unfamiliar technology to increase my creativity. I can combine a range of media, recognising the contribution of each to achieve a particular outcome. I can tell you why I select a particular online tool for a	
Multimedia	create digital content I can be creative with different technology tools. I can use technology to create and present my ideas. I can use the keyboard or a word bank on my device to enter text. I can save information in a special place and retrieve it	I can use technology to organise and present my ideas in different ways. I can use the keyboard on my device to add, delete and space text for others to read. I can tell you about an online tool that will help me to share my ideas with other people. I can save and open files on	I can create a range I can create different effects with different technology tools. I can combine a mixture of text, graphics and sound to share my ideas and learning. I can use appropriate keyboard commands to amend text on my device, including making use of a spellchecker.	of programs, systems and content that I can use photos, video and sound to create an atmosphere when presenting to different audiences. I am confident to explore new media to extend what I can achieve. I can change the appearance of text to increase its effectiveness. I can create, modify and present documents for a particular purpose. I can use a keyboard confidently	I can use text, photo, sound and video editing tools to refine my work. I can use the skills I have already developed to create content using unfamiliar technology. I can select, use and combine the appropriate technology tools to create effects that will have an impact on others. I can select an appropriate online or offline tool to create and share ideas.	I can talk about audience, atmosphere and structure when planning a particular outcome. I can confidently identify the potential of unfamiliar technology to increase my creativity. I can combine a range of media, recognising the contribution of each to achieve a particular outcome. I can tell you why I select a	

			appropriate tool to	online.		effectiveness of my work	
			share my work	I can give constructive feedback		and the work of others.	
			online.	to my friends to help them			
				improve their work and refine			
				my own work.			
	Pupils should be taught to use technology purposefully to		Pupils should be taught to understand computer networks including the internet; how they can provide multiple services, such as				
	store and retrieve digital content and to recognise common		the world wide web; and the opportunities they offer for communication and collaboration. Use search technologies effectively,				
	uses of information technology beyond school.		appreciate how results are selected and ranked, and be discerning in evaluating digital content.				
	I can recognise the way	I can tell you why I use	I can save and retrieve	I can tell you whether a	I can describe different parts	I can tell you the internet	
lives	we use technology in	technology in the classroom.	work on the internet, the	resource	of the internet.	services I need to use for	
	our classroom.	I can tell you why I use	school network or my ov	vn I am using is on the	I can use different online	different purposes.	
	I can recognise ways	technology in my home and	device.	internet, the school	communication tools for	I describe how information	
our	that technology is used	community.	I can talk about the parts	network or my own	different purposes.	is transported on the	
5	in my home and	I am starting to understand	of a computer.	device.	I can use a search engine to	internet.	
.⊑	community.	that other people have	I can tell you ways to	I can identify key words to	find appropriate	I can select an appropriate	
	I can use links to	created the information I use.	communicate with other	s use when searching safely	information and check its	tool to communicate and	
Technology	websites to find	I can identify benefits of using	online.	on the World Wide Web.	reliability.	collaborate online.	
<u> </u>	information.	technology including finding	I can describe the World	I think about the reliability	I can recognise and evaluate	I can talk about the way	
2	I can begin to identify	information, creating and	Wide Web as the part of	of information I read on	different types of	search results are selected	
=	some of	communicating.	the internet that contain	s the World Wide Web.	information I find on the	and ranked.	
ည္က	the benefits of using	I can talk about the	websites. I can use searc	h I can tell you how to check	World Wide Web.	I can check the reliability of	
Ĕ	technology	differences between the	tools to find and use an	who owns photos, text	I can describe the different	a website.	
		internet and things in the	appropriate website.	and clipart. I can create a	parts of a webpage.	I can tell you about	
		physical world.	I can think about whether	er I hyperlink to are source on	I can find out who the	copyright and acknowledge	
			can use images that I find	d the World Wide Web.	information on a webpage	the sources of information	
			online in my own work.		belongs to.	that I find online.	