Information Technol	Information Technology							
Year R	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
I can play on a touch screen game and use computers/ keyboards/ mouse in role play I can type letters with increasing confidence using a keyboard and tablet.	I can type words on a digital device. I can use the space bar to make space and delete to delete letters/words I can make a new line using enter/return	I can use the space bar only once between words and use touch to navigate to words letter to edit I can copy and paste images and text Use caps locks for capital letters.	I can edit the style and effect of my text and images to make my document more engaging and eyecatching. For example, borders and shadows. I can use cut, copy and paste to quickly duplicate and organise text.	I can combine digital images, objects and text to make a final piece of a variety of tasks: posters, documents, leaflets. Use text shortcuts such as cut, copy and paste and delete. Use font sizes appropriately. Use spell check and	I can start to apply other useful effects to my documents such as hyperlinks. I can import sounds to accompany and enhance the text in my document. I can organise and reorganise text on screen to suit a purpose	I can confidently choose the best application to demonstrate my learning. I can format text to suit a purpose. • I can discuss the audience and purpose of my content.		
I can identify a chart. I can sort physical objects, take a picture and discuss what I have done.	I can sort images or text into two or more categories on a digital device. I can collect data on a topic. I can create a tally chart and pictogram.	I can sort digital objects into a range of charts such as Venn diagrams, carroll diagrams and bar charts using different apps and software. I can explain what the data shows me.	I can create my own sorting diagram and complete a data handling activity with it using images and text. I can start to input simple data into a spreadsheet.	I can create my own online multiple choice questionnaire. I can input data into a spreadsheet and export the data in a variety of ways: charts, bar charts, pie charts.	I can use simple formulae to solve calculations including =sum and other statistical functions I can edit and format different cells in a spreadsheet.	I can write spreadsheet formula to solve more challenging maths problems. I can create and publish my own online quiz		
I can animate a simple image to speak in role I can create a simple animation to tell a story	I can create an animation to tell a story. I can add my own pictures to my story animation.	I can create a simple stop motion animation. I can explain how an animation/flip book works	I can improve stop motion animation clips with techniques like onion skinning. I can use animation tools in presenting	I can take multiple animations of a character I have created and edit them together for a longer video.	I can record animations of different characters and edit them together to create an interview.	I can mix animations and videos recordings of myself to create video interviews. I can choose and create different		

including more			software to create	I can use line draw	I can create flip	types of animations
than one character			simple animations.	tool to create	book animation	to best explain my
				animations	using digital	learning.
					drawings and	
					export as a Gif or	
					video	
I know the	I can record a film	I can use tools to	I can sequence clips	I can add music and	I can use cutaway	I can add animated
difference between	using the camera	add effects to a	of mixed media in a	sound effects to my	and split screen	subtitles to my film
a photography and	арр.	video	timeline and record	films	tools in iMovie.	to further enhance
video.	I can select images		a voiceover	I can add animated	I can evaluate and	my creation.
I can record a short	and record a		I can trim and cut	titles and	improve the best	I can create videos
film using the	voiceover.		film clips and add	transitions	video tools to best	using a range of
camera			titles and	I can add simple	explain my	media - green
I can watch films			transitions	subtitles to a video	understanding.	screen, animations,
back				clip.		film and image.
I can take a	I can edit a photo	I can edit a photo	I can confidently	I can enhance	I can make a digital	I can edit a picture
photograph and	with simple tools	(crop, filters, mark	take and	digital images and	photo using camera	to remove items,
use it in an app	I can use a	up etc)	manipulate photos	photographs using	settings	add backgrounds,
I can use a painting	paint/drawing app	I can cut images	I can create a	crop, brightness,	I can link and	merge 2 photos
app and explore	to create a digital	with accuracy to	digital image using	contrast & resize	explain how to	I can evaluate and
the paint and brush	image	layer on other	a range of tools,	I can manipulate	photoshop images	discuss images
tools		images	pens, brushes and	shapes to create	and how this is	explaining effects
			effects	digital art.	used in the media	and filters that
						have been used to
						enhance the media.

Computer Science						
Year R	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
I can follow simple oral algorithms I can spot simple patterns I can sequence simple familiar tasks	I understand what algorithms are I can write simple algorithms I understand the sequence of algorithms is important I can debug simple algorithms I understand that algorithms are implemented as programs on digital devices	I can write algorithms for everyday tasks I can use logical reasoning to predict the outcome of algorithms I understand decomposition is breaking objects/ processes down I can implement simple algorithms on digital devices (Bee Bots, Apps: Daisy the Dino) I can debug	I can create algorithms for use when programming I can decompose tasks (such as animations) into separate steps to create an algorithm I understand abstraction is focusing on important information I can identify patterns in an algorithm I can use repetition in algorithms	I can use abstraction to focus on what's important in my design I can write increasingly more precise algorithms for use when programming. I can use simple selection in algorithms I can use logical reasoning to detect and correct errors in programs	I can solve problems by decomposing them into smaller parts I can recognise the need for conditions in repetition within algorithms I can use logical reasoning to explain how a variety of algorithms work or to detect and correct errors in algorithms I can evaluate my work and identify	I can recognise, and make use, of patterns across programming projects I can write precise algorithms for use when programming I can identify variables needed and their use in selection I can decompose code into sections for effective debugging I can critically evaluate my work.
		algorithms	I understand that computers in a school are connected together in a network I understand why computers are networked	I understand that servers on the Internet are located across the planet I understand how email is sent across the Internet I understand how the Internet enables us to collaborate	I understand how we view web pages on the Internet I use search technologies effectively I appreciate how pages are ranked in a search engine	I understand what HTML is and recognize HTML tags I know a range of HTML tags and can remix a web page

Digital Literacy	Digital Literacy							
Year R	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
I can recognise that I can say 'no' / 'please stop' / 'I'll tell' / 'I'll ask' to somebody who asks me to do something that makes me feel sad, embarrassed or upset.	I can recognise that there may be people online who could make me feel sad, embarrassed or upset. If something happens that makes me feel sad, worried, uncomfortable or frightened I can give examples of when and how to speak to an adult I can trust.	I can describe ways in which people might make themselves look different online. I can give examples of issues online that might make me feel sad, worried, uncomfortable or frightened; I can give examples of how I might get help.	I can explain how I can represent myself in different ways online. I can explain ways in which and why I might change my identity depending on what I am doing online (e.g. gaming; using an avatar; social media).	I can explain how my online identity can be different to the identity I present in 'real life' Knowing this, I can describe the right decisions about how I interact with others and how others perceive me.	I can explain how identity online can be copied, modified or altered. I can demonstrate responsible choices about my online identity, depending on context.	I can describe issues online that might make me or others feel sad, worried, uncomfortable or frightened. I know and can give examples of how I might get help, both on and offline.  I can explain why I should keep asking until I get the help I need.		
I can recognise some ways in which the internet can be used to communicate.	I can explain why it is important to be considerate and kind to people online.	I can give examples of how I might use technology to communicate with others I don't know well.	I can describe ways people who have similar likes and interests can get together online. I can give examples of technology-specific forms of communication (e.g. emojis, text speak). I can explain how my and other people's feelings can be hurt by what is said or written online.	I can describe strategies for safe and fun experiences in a range of online social environments I can give examples of how to be respectful to others online.	I can explain that there are some people I communicate with online who may want to do me or my friends harm. I can recognise that this is not my/our fault. I can describe some of the communities in which I am involved and describe how I collaborate with others positively.	I can show I understand my responsibilities for the well-being of others in my online social group. I can explain how impulsive and rash communications online may cause problems. I can demonstrate how I would support others (including those who are having difficulties) online.		

			I can explain why I should be careful who I trust online and what information I can trust them with.			I can demonstrate ways of reporting problems online for both myself and my friends.
	I can describe what information I should not put online without asking a trusted adult first	I can explain how information put online about me can last for a long time. I know who to talk to if I think someone has made a mistake about putting something online	I can recognise I need to be careful before I share anything about myself or others online. I know who I should ask if I am not sure if I should put something online	I can describe how others can find out information about me by looking online. I can explain ways that some of the information about me online could have been created, copied or shared by others.	I can search for information about an individual online and create a summary report of the information I find. I can describe ways that information about people online can be used by others to make judgments about an individual.	I can explain how I am developing an online reputation which will allow other people to form an opinion of me. I can describe some simple ways that help build a positive online reputation
I can describe ways that some people can be unkind online. I can offer examples of how this can make others feel.	I can describe how to behave online in ways that do not upset others and can give examples.	I can give examples of bullying behaviour and how it could look online. I understand how bullying can make someone feel.	I can explain what bullying is and can describe how people may bully others. I can describe rules about how to behave online and how I follow them.	I can identify some online technologies where bullying might take place. I can explain why I need to think carefully about how content I post might affect others, their feelings and how it may affect how others feel about them (their reputation).	I can describe how to get help for someone being bullied online and assess when I need to do something or tell someone. I can explain how to block and report abusive users. I can describe the helpline services who can support me (e.g. Childline).	I can describe how to capture bullying content as evidence (e.g screen-grab) to share with others who can help me. I can identify a range of ways to report concerns both in school and at home about online bullying.

I can talk about how I can use the internet to find things out.	I can use the internet to find things out. I can use simple keywords in search engines	I can use keywords in search engines. I can demonstrate how to navigate a simple webpage to get to information I need (e.g. home, forward, back buttons). I can explain the difference between things that are imaginary, 'made up' or 'make believe' and things that are 'true' or 'real'. I can explain why some information I find online may not be true	I can use key phrases in search engines. I can explain what autocomplete is and how to choose the best suggestion. I can explain how the internet can be used to sell and buy things I can explain the difference between a 'belief', an 'opinion' and a 'fact'.	I can analyse information and differentiate between 'opinions', 'beliefs' and 'facts'. I can describe some of the methods used to encourage people to buy things online (e.g. pop-ups). I can explain that some people I 'meet online' (e.g. through social media) may not be real people. I can explain why lots of people sharing the same opinions or beliefs online does not make those opinions or beliefs true.	I can use different search technologies. I can evaluate digital content and can explain how I make choices from search results. I understand the difference between online misinformation (inaccurate information distributed by accident) and disinformation (inaccurate information deliberately distributed with intent to mislead). I can explain what is meant by 'being sceptical' and can give examples of when and why it is important to be 'sceptical'. I can explain why some information I find online may not be honest, accurate	I can use search technologies effectively. I can explain how search engines work and how results are selected and ranked. I can demonstrate the strategies I would apply to be discerning in evaluating digital content. I can explain how and why some people may present 'opinions' as 'facts'. I can demonstrate strategies to enable me to analyse and evaluate the validity of 'facts' and I can explain why using these strategies are important. I can identify, flag and report inappropriate content.
						content

I can identify rules that help keep us safe and healthy in and beyond the home when using technology.	I can explain rules to keep us safe when we are using technology both in and beyond the home. I can give examples of some of these rules.	I can explain simple guidance for using technology in different environments and settings. I can say how those rules/guides can help me	I can explain why spending too much time using technology can sometimes have a negative impact on me; I can give some examples (e.g. games, films, videos).	I can explain how using technology can distract me from other things I might do or should be doing. I can identify times or situations when I might need to limit the amount of time I use technology. I can suggest strategies to help me limit this time.	I can describe ways technology can affect healthy sleep and can describe some of the issues. I can describe some strategies, tips or advice to promote healthy sleep with regards to technology	I can describe common systems that regulate agerelated content (e.g. PEGI, BBFC, parental warnings) and describe their purpose. I can explain the importance of self-regulating my use of technology; I can demonstrate the strategies I use to do this (e.g. monitoring my time online).
I can identify some simple examples of	I can recognise examples of	I can describe why other people's	I can give reasons why I should only	I can explain what a strong password is.	I can explain how many free apps or	I can describe effective strategies
my personal information (e.g.	information that is personal to me	work belongs to them.	share information with people I	I can describe strategies for	services may read and share my	for managing passwords.
name, birthday,	(e.g. where I live,	I can recognise that	choose to and can	keeping my	private information	I know what to do
age, location).	my family's names,	content on the	trust	personal	(e.g. friends,	if my password is
I can describe the	where I go to	internet may	I understand and	information	contacts, likes,	lost or stolen.
people I can trust	school). • I know I	belong to other	can give reasons	private.	images, videos)	I can explain what
and can share this	should always ask a	people.	why passwords are	I can explain that	with others.	app/privacy
with.	trusted adult		important.	others online can	I can explain how	permissions are
	before I share any information about		I can describe simple strategies	pretend to be me or other people,	some apps may take payment for	and can give some examples from the
	myself online. • I		for creating and	including my	additional content	technology or
	can explain how		keeping passwords	friends	(e.g. in-app	services I use.
	passwords can be		private.	I can suggest	purchases) and	I can describe ways
	used to protect			reasons why they	explain why I	in which some
	information and			might do this.	should seek	online content
	devices.				permission from a	targets people to

					trusted adult before purchasing	gain money or information illegally; I can describe strategies to help me identify such content (e.g. scams, phishing)
I know that work I create belongs to me. I can name my work so that others know it belongs to me.	I can explain why work I create using technology belongs to me. I can say why it belongs to me (e.g. 'it is my idea' or 'I designed it'). I can save my work so that others know it belongs to me (e.g. filename, name on content).	I can describe why other people's work belongs to them. I can recognise that content on the internet may belong to other people	I can explain why copying someone else's work from the internet without permission can cause problems.	When searching on the internet for content to use, I can explain why I need to consider who owns it and whether I have the right to reuse it.	I can assess and justify when it is acceptable to use the work of others. I can give examples of content that is permitted to be reused.	I can demonstrate the use of search tools to find and access online content which can be reused by others.