BLOCK	TOPIC	NC Objectives	Education in a Connected World Links
1	Computing systems and networks – Technology around us	Recognise common uses of information technology beyond school; Use technology purposefully to create, organise, store, manipulate, and retrieve digital content; Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.	Health, well-being and lifestyle I can identify rules that help keep us safe and healthy in and beyond the home when using technology I can give some simple examples Copyright and ownership I know that the work I create belongs to me I can name my work so that others know it belongs to me
2	Creating media – Digital painting	Use technology purposefully to create, organise, store, manipulate, and retrieve digital content	
3	Creating media – Digital writing	Use technology purposefully to create, organise, store, manipulate and retrieve digital content Use technology safely and respectfully, keeping personal information private	Privacy and security I can give reasons why I should only share information with people I choose to and can trust.
4	Data and information – Grouping data	Use technology purposefully to create, organise, store, manipulate and retrieve digital content Use technology safely and respectfully	Copyright and ownership I know that work I create belongs to me I can name my work so that others know it belongs to me

5	Programming A – Moving a robot	Understand what algorithms are; how they are implemented as programs on digital;	
6	Programming B – Introduction to animation	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;	
		Recognise common uses of information technology beyond school.	

вьоск	TOPIC	NC Objectives	Education in a Connected World Links
1	Computing systems and networks – IT around us	Recognise common uses of information technology beyond school; Use technology purposefully to create, organise, store, manipulate, and retrieve digital content; Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.	Health, well-being and lifestyle I can identify rules that help keep us safe and healthy in and beyond the home when using technology. I can give some simple examples.
2	Creating media – Digital photography	Use technology purposefully to create, organise, store, manipulate, and retrieve digital content; Recognise common uses of information technology beyond school; Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.	To identify that some images are not real (fake)
3	Creating media – Making music	Use technology purposefully to create, organise, store, manipulate and retrieve digital content	I know that work I create belongs to me.
4	Data and information – Pictograms	use technology purposefully to create, organise, store, manipulate and retrieve digital content	Self-image and identity

use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies

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 and I can explain how this could be either in real life or online

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

Health, wellbeing and lifestyle

I can identify rules that help keep us safe and healthy in and beyond the home when using technology
I can give some simple examples

Privacy and security

I can identify some simple examples of my personal information (e.g. name, address, birthday, age, location)

I can describe the people I can trust and can share this with; I can explain why I can trust them

I can recognise more detailed examples of information that is personal to me (e.g. where I live, my family's names, where I go to school)

5	Programming A – Robot algorithms	Understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and	
6	Programming B - An introduction to quizzes	unambiguous instructions Create and debug simple programs Use logical reasoning to predict the behaviour of simple programs Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.	

вьоск	ТОРІС	NC Objectives	Education in a Connected World Links
1	Computing systems and networks — Connecting computers	Use sequence, selection, and repetition in programs; work with variables and various forms of input and output Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web; and the opportunities they offer for communication and collaboration 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	
2	Creating media — Animation	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 use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Managing online information I can use key phrases in search engines. I can use search technologies effectively. Copyright and ownership I can explain why copying someone else's work from the internet without permission can cause problems. I can give examples of what those problems might be. 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.
3	Creating media – Desktop publishing	Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content 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	Managing online information I can use key phrases in search engines I can use search technologies effectively Copyright and ownership 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 demonstrate the use of search tools to find and access online content which can be reused by others.
4	Data and information – Branching databases	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 Use technology safely, respectfully, and responsibly	
6	Programming A — Sequence in music Programming B — Events and actions	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, including collecting, analysing, evaluating and presenting data and information

BLOCK	TOPIC	NC Objectives	Education in a Connected World Links
1	Computing systems and networks – The Internet	Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration	
		Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content	
		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	
		Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	

2 Creating media – Audio editing Use search technologies effectively, appreciate heresults are selected and ranked, and be discerning evaluating digital content 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	else's work from the internet without permission can cause problems (Y3) I can give examples of what those problems might be (Y3)
---	--

		including collecting, analysing, evaluating, and presenting data and information Use technology safely, respectfully, and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	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 (Y4) I can give some simple examples (Y4)
3	Creating media – Photo editing	Use search technologies effectively 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 Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Self-image and identity I can describe ways in which people might make themselves look different online. Copyright and ownership 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.
4	Data and information – Data logging	work with various forms of input 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	
5	Programming A –		

	Repetition in shapes	Design, write and debug programs that accomplish specific goals, including controlling or simulating	
6	Programming B - Repetition in games	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, including collecting, analysing, evaluating and presenting data and information	

BLOCK	TOPIC	NC Objectives	Education in a Connected World Links
1	Computing systems and networks – Sharing information	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 Understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration 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 Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	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
2	Creating media – Vector drawing	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,	Copyright and ownership I can explain why copying someone else's work from the internet without permission can cause problems.

		including collecting, analysing, evaluating, and presenting data and information.	
3	Creating media – Video editing	Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content 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 Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Internet safety Recognise inappropriate content, contact, and conduct and know how to report concerns Use technology safely, respectfully, and responsibly; recognise acceptable/unacceptable behaviour Identify a range of ways to report concerns about content and contact Self-image and Identity I can explain how I can represent myself in different ways online Knowing this, I can describe the right decisions about how I interact with others and how others perceive me Online relationships I can recognise some ways in which the internet can be used to communicate I can give examples of how to be respectful to others online Online reputation I can search for information about an individual online and create a summary report of the information I find I can explain ways that some of the information about me online could have

			been created, copied, or shared by others Managing online information I can evaluate digital content (and can explain how I make choices from search results)
4	Data and information — Flat-file databases	use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content 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	
6	Programming A - Selection in physical computing Programming B - Selection in quizzes	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, including collecting, analysing, evaluating and presenting data and information	
--	--	--

BLOCK	TOPIC	NC Objectives	Education in a Connected World Links
1	Computing systems and networks — Communication	Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts Understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content 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 Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	I can describe and assess the benefits and the potential risks of sharing information online. I can use various additional tools to refine my searches (e.g. search filters: size, type, usage rights etc.). I can explain how to use search effectively and use examples from my own practice to illustrate this. I can explain how search engine rankings are returned and can explain how they can be influenced (e.g. commerce, sponsored results).
2	Creating media – 3D Modelling	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,	Privacy and Security (Y4) – I can describe strategies for keeping my

		systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	personal information private, depending on context
3	Creating media – Web page creation	Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content 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. use technology safely, respectfully, and responsibly; recognise acceptable/unacceptable behaviour.	Online relationships I can use the internet with adult support to communicate with people I know. Managing information online I can navigate online content, websites, or social media feeds using more sophisticated tools to get to the information I want (e.g. menus, sitemaps, breadcrumb-trails, site search functions). Copyright and ownership I can explain why copying someone else's work from the internet without permission can cause problems. I can give examples of what those problems might be. 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 give some simple examples.

4	Data and information — Spreadsheets	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	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. I can demonstrate how to make references to and acknowledge sources I have used from the internet. I can explain the principles of fair use and apply this to case studies. Managing information online I can describe how I can search for information within a wide group of technologies (e.g. social media, image sites, video sites) I can use different search technologies I can evaluate digital content and can explain how I make choices from search results
6	Programming A – Variables in games Programming B – Sensing	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, including collecting, analysing, evaluating and presenting data and information