# **Whole School Computing Overview 2022/23**



Term	Year 3	Year 4	Year 5	Year 6
	Computing systems and networks	Computing systems and networks	Computing systems and networks	Computing systems and networks
	<ul> <li>Connecting computers</li> </ul>	– The Internet	- Systems and searching	- Communication and collaboration
	Use sequence, selection, and repetition in	Understand computer networks, including the	Understand computer networks, including the	Design, write and debug programs that
	programs; work with variables and various	internet; how they can provide multiple	internet; how they can provide multiple	accomplish specific goals, including controlling or
	forms of input and output	services, such as the World Wide Web, and the opportunities they offer for communication	services, such as the World Wide Web, and the opportunities they offer for communication and	simulating physical systems; solve problems by decomposing them into smaller parts.
	Understand computer networks, including the	and collaboration.	collaboration.	
	internet; how they can provide multiple	<u> </u>		Understand computer networks, including the
	services, such as the World Wide Web, and the	Use search technologies effectively, appreciate	Select, use and combine a variety of software	internet; how they can provide multiple services,
	opportunities they offer for communication and	how results are selected and ranked, and be	(including internet services) on a range of digital	such as the World Wide Web, and the
	collaboration.	discerning in evaluating digital content.	devices to design and create a range of	opportunities they offer for communication and collaboration.
Autumn 1	Select, use and combine a variety of software	Select, use and combine a variety of software	programs, systems and content that accomplish given goals, including collecting, analysing,	Collaboration.
	(including internet services) on a range of digital	(including internet services) on a range of	evaluating and presenting data and information.	Select, use and combine a variety of software
	devices to design and create a range of	digital devices to design and create a range of	evaluating and presenting data and morniation.	(including internet services) on a range of digital
	programs, systems and content that accomplish	programs, systems and content that	Use technology safely, respectfully and	devices to design and create a range of programs,
	given goals, including collecting, analysing,	accomplish given goals, including collecting,	responsibly; recognise acceptable/unacceptable	systems and content that accomplish given goals,
	evaluating and presenting data and information.	analysing, evaluating and presenting data and	behaviour; identify a range of ways to report	including collecting, analysing, evaluating and
		information.	concerns about content and contact	presenting data and information.
		Use technology safely, respectfully and		
		responsibly; recognise		
		acceptable/unacceptable behaviour; identify a		
		range of ways to report concerns about		
	Constinue media	content and contact.	Constinue van die	Constinuentia
	Creating media - Stop-frame animation	Creating media - Audio production	Creating media - Video production	Creating media  – Web page creation
	- Stop-Hame animation	- Addio production	- video production	- Web page creation
	Select, use and combine a variety of software	Use search technologies effectively, appreciate	Use search technologies effectively, appreciate	Use search technologies effectively, appreciate
	(including internet services) on a range of digital	how results are selected and ranked, and be	how results are selected and ranked, and be	how results are selected and ranked, and be
Autumn 2	devices to design and create a range of	discerning in evaluating digital content.	discerning in evaluating digital content.	discerning in evaluating digital content.
Autum 2	programs, systems and content that accomplish			
	given goals, including collecting, analysing,	Select, use and combine a variety of software	Select, use and combine a variety of software	Select, use and combine a variety of software
	evaluating and presenting data and information.	(including internet services) on a range of	(including internet services) on a range of digital	(including internet services) on a range of digital
	Lieu tachmalagu cafalu maanaatfullu and	digital devices to design and create a range of	devices to design and create a range of	devices to design and create a range of programs,
	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable	programs, systems and content that	programs, systems and content that accomplish	systems and content that accomplish given goals,
	responsibily, recognise acceptable/unacceptable	accomplish given goals, including collecting,	<u> </u>	

	behaviour; identify a range of ways to report concerns about content and contact.	analysing, evaluating and presenting data and information	given goals, including collecting, analysing, evaluating and presenting data and information.	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.	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact
	Programming A - Sequencing sounds	Programming A  – Repetition in shapes	Creating media  – Introduction to vector graphics	Programming A  – Variables in games
Spring 1	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.	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.  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	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.	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.  Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable
	Data and information	Data and information	Data and information	behaviour; identify a range of ways to report concerns about content and contact Data and information
Spring 2	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; recognise acceptable/unacceptable	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.	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	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.

	behaviour; identify a range of ways to report concerns about content and contact.	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.	given goals, including collecting, analysing, evaluating and presenting data and information.	
	Creating media	Creating media	Programming A	Creating media
	<ul> <li>Desktop publishing</li> </ul>	– Photo editing	<ul> <li>Selection in physical computing</li> </ul>	– 3D Modelling
Summer 1	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 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.	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.	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
	Programming B - Events and actions in programs	Programming B  – Repetition in games	Programming B  – Selection in quizzes	Programming B - Sensing movement
Summer 2	Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.	Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.	Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.	Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.
23	Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.	Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.	Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.	Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.
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