Computing Curriculum Overview

Year	Autumn		Spring		Summer	
	1	**2**	**1**	**2**	**1**	**2**
1	Logging on, creating digital images *Use technology purposefully to create digital content*	Using Word to create sentences, some tinkering with font, brief mention of password *Use technology purposefully to create digital content + keeping personal information private*	Internet safety and safe searching **Use technology safely and respectfully; common uses of IT beyond school**	IT outside of school – discussions around supermarkets and home uses; beginning to tinker with word processing **Recognise common uses of Information Technology outside of school; using technology purposefully**	Algorithms, tinkering and debugging algorithms, use of Beebots and Roamer. *Understand what algorithms are, create and debug simple programs; predicting behaviour*	Designing and making cards *Use technology purposefully, common uses of IT beyond school*
2	Researching – using search to find information (Rising Stars) *Organise digital content, use technology respectfully, common uses of IT outside school.*	Games testing (Rising Stars) *Understanding algorithms, predicting, looking into programmes, using IT safely*	Using digital media and managing content (Rising Stars) **Use technology purposefully to create, organise, store, manipulate and retrieve digital content**	Using digital media and managing content (Rising Stars) **Use technology purposefully to create, organise, store, manipulate and retrieve digital content**	Using email communications (Rising Stars) **Use technology purposefully to create, organise, store, manipulate and retrieve digital content + Use technology safely and respectfully, keeping personal information private;**	Using Scratch to develop sprites and backgrounds and begin to understand how to code (Rising Stars) **Create and debug simple programs**
3	Animation using Scratch (We are animators – Rising Stars) **Design and debug programs that accomplish specific goals including controlling or stimulating physical systems; solve problems by decomposing them into smaller parts**	Fixing Bugs (We are bug fixers; Rising Stars)- **Design and debug programs that accomplish specific goals including controlling or stimulating physical systems; solve problems by decomposing them into smaller parts**	Presenting information and online safety – *Select and use a variety of software that is used to complete a variety of goals including presenting information +* Use technology safely, respectfully and responsibly; recognise acceptable/non-acceptable; identify a range of ways to report concerns about content and contact	Network engineering - *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*	Using and understanding Word - *Select, use and combine a variety of software to design and create content that accomplishes given goals including presenting information*	Using WP software to create a holiday brochure - *Select, use and combine a variety of software to design and create content that accomplishes given goals including presenting information*
4	Understanding computers and networks - *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*	Exploring algorithms and using software to produce information – *use logical reasoning to explain how algorithms work, select and use software to design, create and modify a programme to achieve a goal.*	Designing and creating - *design, write and debug programmes that accomplish specific controls including controlling or simulating systems; solve programs by decomposing them into smaller parts*	Google Internet Legends (Password, Being Kind, Sharing Info, What is real?)– *using technology safely and responsibly; recognising acceptable and unacceptable behaviour and how to report concerns*	We are meteorologists (Rising Stars) - *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, system and content that accomplish given goals, including collecting, analysing, evaluating and presenting a range of data and information* **Purple Mash Syllabus (Sept 21-22)**	**Purple Mash syllabus (2021-22)**

5	Explore algorithms, tinkering with software and using software to produce output - *use logical reasoning to explain how some simple algorithms work, 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*	Designing and creating - *design, write and debug programmes that accomplish specific controls including controlling or simulating systems; solve programs by decomposing them into smaller parts*	Creating information pages linked to topic. **Select, use and combine a variety of software to design and create content that accomplishes given goals including presenting, analysing and collecting information**	Using software to create art. **Select, use and combine a variety of software to design and create content that accomplishes given goals including presenting, analysing and collecting information**	Creating simple blogs. **Select, use and combine a variety of software to design and create content that accomplishes given goals including presenting, analysing and collecting information _also_ *using technology safely and responsibly; recognising acceptable and unacceptable behaviour and how to report concerns***	Designing and creating sculptures, displaying virtually - **Select, use and combine a variety of software to design and create content that accomplishes given goals including presenting, analysing and collecting information**
6	Tinkering with software and using software to produce output *and* designing and creating presentation *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*	Tinkering with software and using software to produce output *and* designing and creating presentation *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*	Online safety with search engines. **Use search technologies effectively, appreciate how results are selected and ranked, and be discerning about digital content**	Spag.com work -GPS	Work for Y6 production, using previous skills to create posters and programmes for the production - *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*	Work for Y6 production, using previous skills to create posters and programmes for the production - *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*