Computing

Throughout the year the children will cover a variety of aspects of the computing curriculum to ensure all children:

- can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems
- can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- are responsible, competent, confident and creative users of information and communication technology.

SMSC				
We promote spiritual development:	We promote moral development:	We promote social development:	We promote cultural development:	
By wondering at the power of the digital age e.g. use of the internet By understanding the advantages and limitations of ICT.	By exploring the moral issues surrounding the use of data. By considering the benefits and potential dangers of the internet – e.g. campaigns for charities and	By links through digital media services with other schools and communities. By highlighting ways to stay safe when using on line	By exploring human achievements and creativity in relation to worldwide communications. By offering Amazing Animators as a University seminar to ensure an understanding of the changes in the use of technology over time. By developing a sense of awe and wonder at human ingenuity. By generating an awareness and understanding of the diversity of presentation and sharing of	
By using the internet as a gateway to 'big life' issues. By generating a sense of achievement	injustice as a force for good. Cyber bullying as a danger. By considering the vision of those involved in developing the web.	services and social media By being prepared to work with technology to forge new		
(eg use of electronic writing) By developing a sense of resilience through: test, try, fail, refine, succeed – including through Coding	By fostering an awareness of issues relating to e-safety and gaming such as age-related content, amount of screen time and	relationships. By discussing the impact of ICT on the ways people communicate e.g. Skype.		
	an awareness of who you are communicating with whilst online.	By working collaboratively as team to use equipment and resources responsibly and effectively.	information globally	

Autumn 1	Skills – Publisher text, font size – purpose
	select, use and combine a variety of software (including internet services) evaluating and presenting data and information
Autumn 2	E Safety
	use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.
Spring 1	Programming – Software Scratch
	use sequence, selection, and repetition in programs; work with variables and various forms of input and output
Spring 2	Programming Software Scratch
	use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
Summer 1	Data collection -Opinion Polsters
	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
Summer 2	- Presentation - Use of Powerpoint
	select, use and combine a variety of software (including internet services) evaluating and presenting data and information