Curriculum Objectives

Pupils should be taught to:

1. Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
2. Create and debug simple programs
3. Use logical reasoning to predict the behaviour of simple programs
4. Use technology purposefully to create, organise, store, manipulate and retrieve digital content recognise common uses of information technology beyond school
5. 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.

Computing Intent

Pupils will become confident and responsible digital citizens. They will develop computational thinking and key skills to promote resilience when creating digital content. Pupils will develop strategies to build healthy online relationships and engage positively with online technologies.

Computing Long Term Plan **YEAR 1**

Term	Topic	Online Safety Focus	Digital Literacy Skills	National Centre for Computing Education
Topic 1	Childhood	https://projectevolve.co.uk/ **Autumn 1** **Self Image and Identity** Autumn 2	● Use the camera feature on the Ipads to take photos of old and new toys. ● Add these to Book Creator and sort into old and new. ● Use the Ipad to photograph their learning.	[3. Programming A – Moving a robot](#)

		Online Relationships **Online Reputation** 	● Log in and post their photo to Tapestry.	[6. Programming B - Programming animations](#)
Topic 2	Bright Lights, Big City	Spring 1 **Online Bullying** Spring 2 **Privacy and Security** **Copyright and Ownership** 	● Logging onto the chromebook ● opening web browser (play hit the button/ splat?	[2. Creating media – Digital painting](#) [1. Computing systems and networks – Technology around us](#)
Topic 3 School Days		Summer 1	Applying skills to make a book?	

		Health and Wellbeing Summer 2 **Managing Online Information** 	Word process a piece of their learning.	4. Data and information – Grouping data 5. Creating media – Digital writing

Computing Long Term Plan **YEAR 2**

Term	Topic	Online Safety Focus	Basic Skills/New Curriculum	Programmes
Topic 1		https://projectevolve.co.uk/ **Autumn 1** **Self Image and Identity** **Autumn 2** **Online Relationships** **Online Reputation**	• Logging onto the **chromebook** • understanding username and password / characters • Find the school website	1. Computing systems and networks – IT around us 2. Creating media – Digital photography

Topic 2	Coastline	Spring 1 **Online Bullying** Spring 2 **Privacy and Security** **Copyright and Ownership**	● Teach using **Swiggle**- A child friendly search engine. ● Research best beaches in UK	3. Programming A – Robot algorithms 4. Data and information – Pictograms
Topic 3	Magnificent Monarchs	Summer 1 **Health and Wellbeing** Summer 2 **Managing Online Information**	● Research famous monarchs ● swiggle ● Create an information leaflet in **Book Creator**	5. Creating media - Digital music 6. Programming B - Programming quizzes