High Ercall Primary School

Long Term Plan for Computing

Subject Leader: Rachael Preston   **Date: January 2022**

E-Safety

When teaching E-Safety, please use https://projectevolve.co.uk/ and refer to the E-Safety Overview in the Computing file for specific lessons. Children must sign the Pupil E-Safety Agreement in their first lesson. Please recap the indicated e-safety lesson at the beginning of each unit.

Computing

Please use https://teachcomputing.org/ to download your unit of work. Any specified Twinkl units have been downloaded in the Computing file.

<mark>**Substantive Concepts**</mark>: The substantive concepts are detailed below.

<mark>**Disciplinary Concepts**</mark>: The disciplinary concepts are identified unit headings in bold.

Year A (2021-2022)						
	Autumn 1	**Autumn 2**	**Spring 1**	**Spring 2**	**Summer 1**	**Summer 2**
Class 1	E-Safety	**Privacy and Security** – E-Safety **Computer Navigation** – Computer Skills (Twinkl Y1)	**Online Relationships** – E-Safety **Creating media** – Digital painting (Y1)	**Managing Online Information** – E-Safety **Computing systems and networks** – Technology around us (Y1)	**Online Reputation** – E-Safety **Programming** A – Moving a robot (Y1)	**Self-image and Identity** – E-Safety **Programming** – Programming Toys (Twinkl, Y1)
Substantive concepts	Digital Literacy	Information Technology	Information Technology	Digital Literacy	Computer Science	Computer Science
Class 2	E-Safety	**Privacy and Security** – E-Safety **Creating media** – Digital photography (Y2)	**Online Relationships** – E-Safety **Computing systems and networks** – IT around us (Y2)	**Managing Online Information** – E-Safety **Programming** A – Robot algorithms (Y2)	**Online Reputation** – E-Safety **Programming** B – An introduction to quizzes	**Self-image and Identity** – E-Safety **Computer Navigation** – Computing: Word Processing Skills (Twinkl Y1)
Substantive concepts	Digital Literacy	Information Technology	Digital Literacy	Computer Science	Computer Science	Information Technology

Class 3	E-Safety	**Privacy and Security** – E-Safety **Creating media** – Photo editing (Y4)	**Online Relationships** – E-Safety **Computing systems and networks** – Connecting computers (Y3)	**Managing Online Information** – E-Safety **Computing systems and networks** – The Internet (Y4)	**Online Reputation** – E-Safety **Programming** A – Sequence in music (Y3)	**Self-image and Identity** – E-Safety **Microsoft processing** - Computing: Word Processing skills (Twinkl Y3)
Substantive concepts	Digital Literacy	Information Technology	Digital Literacy	Digital Literacy	Computer Science	Information Technology
Class 4	E-Safety	**Privacy and Security** – E-Safety **Creating media** – Audio editing (Y4)	**Online Relationships** – E-Safety **Computing systems and networks** – Sharing information (Y5)	**Managing Online Information** – E-Safety **Data and information** – Data logging (Y4)	**Online Reputation** – E-Safety **Programming** A – Selection in physical computing (Y5) (supported by Micro:Bit Digital Flashcards)	**Self-image and Identity** – E-Safety **Microsoft processing** – PowerPoint *Consider use of Computing: Presentation Skills (Twinkl Y3) to support planning.*
Substantive concepts	Digital Literacy	Information Technology	Digital Literacy	Information Technology	Computer Science	Information Technology
Class 5	E-Safety	**Privacy and Security** – E-Safety **Creating media** – 3D Modelling (Y6)	**Online Relationships** – E-Safety **Computing systems and networks** – Communication (Y6)	**Managing Online Information** – E-Safety **Programming** A – Variables in games (Y6)	**Online Reputation** – E-Safety **Creating media** – Video editing (Y5	**Self-image and Identity** – E-Safety) **Microsoft processing** – Publisher *Consider use of Computing: Drawing and Desktop Publishing (Twinkl Y3) to support planning.*
Substantive concepts	Digital Literacy	Information Technology	Digital Literacy	Computer Science Digital Literacy	Information Technology	Information Technology

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
			Year B (2022-2023)			
Class 1	E-Safety	**Privacy and Security** – E-Safety **Computer Navigation** - Computer Skills (Twinkl Y1)	**Online Relationships** – E-Safety **Creating media** – Digital writing (Y1)	**Online Information** – E-Safety **Data and information** – Grouping data (Y1)	**Online Reputation** – E-Safety **Programming** B – Introduction to animation (Y1)	**Self-image and Identity** – E-Safety **Programming** with Scratch Jr (Twinkl, Y1)
Substantive concepts	Digital Literacy	Information Technology	Information Technology	Information Technology	Computer Science	Computer Science
Class 2	E-Safety	**Privacy and Security** – E-Safety **Creating media** – Digital music (Y2)	**Online Relationships** – E-Safety **Data and information** – Pictograms (Y2)	**Managing Online Information** – E-Safety **Programming** – Preparing for Turtle Logo (Twinkl, Y2)	**Online Reputation** – E-Safety **Programming** – Turtle Logo and Scratch (Twinkl, Y2)	**Self-image and Identity** – E-Safety **Computer Navigation** – Computing: Word Processing Skills (Twinkl Y1)
Substantive concepts	Digital Literacy	Information Technology	Information Technology	Computer Science	Computer Science	Information Technology
Class 3	E-Safety	**Privacy and Security** – E-Safety **Creating media** – Animation (Y3)	**Online Relationships** – E-Safety **Data and information** – Branching databases (Y3)	**Managing Online Information** – E-Safety **Programming** B – Events and actions (Y3)	**Online Reputation** – E-Safety **Programming** A – Repetition in shapes (Y4)	**Self-image and Identity** – E-Safety **Microsoft processing** - Computing: Word Processing skills (Twinkl Y3)
Substantive concepts	Digital Literacy	Information Technology	Information Technology	Computer Science	Computer Science	Information Technology
Class 4	**E-Safety**	**Privacy and Security** – E-Safety	**Online Relationships** – E-Safety	**Managing Online Information** –	**Online Reputation** – E-Safety	**E-Safety** – Self-image and Identity

		Creating media – Vector drawing (Y5)	**Data and information** – Flat-file databases (Y5)	E-Safety **Programming** B – Repetition in games (Y4)	**Programming** B – Selection in quizzes (Y5)	**Microsoft processing** – PowerPoint *Consider use of Computing: Presentation Skills (Twinkl Y3) to support planning.*
Substantive concepts	Digital Literacy	Information Technology	Information Technology	Computer Science	Computer Science	information Technology
Class 5	**E-Safety**	**Privacy and Security** – E-Safety **Creating media** – Web page creation (Y6)	**Online Relationships** – E-Safety **Data and information** – Spreadsheet (Y6)	**Managing Online Information** – E-Safety **Programming** B – Sensing (Y6)	**Online Reputation** – E-Safety **Programming** – Scratch Animated Stories (Twinkl, Y6)	**Self-image and Identity** – E-Safety **Microsoft processing** – Publisher *Consider use of Computing: Drawing and Desktop Publishing (Twinkl Y3) to support planning.*
Substantive concepts	Digital Literacy	Information Technology	Information Technology	Computer Science	Computer Science	Information Technology