EYFS at Ely St John's Primary

Computing

Computing is not explicitly mentioned as part of the England EYFS curriculum. However, computing and technology has an important role in the lives of young children, both at home and in the classroom. At Ely St John's, we believe it is important to begin developing the foundations of computing skills in the early years so that the children understand how to use technology purposefully, creatively and safely. Each half term we spend time teaching skills from a specific area of computing, areas that are linked to the whole school strands of Computer Science, Digital Literacy and Information Technology. Familiarity with some of these skills will reduce the cognitive load on children in future learning and enable them to make progress more rapidly through the Computing National Curriculum. Explicit teaching of skills is supported by the provision of linked activities in the learning environment and opportunities to practise and purposefully use taught skills.

We do not formally assess Computing in the Early Years. Progress, engagement and attainment is noted in observations and recordings of whole class discussions.

The 'Safety and Privacy Unit' (Digital Literacy) is referred to throughout every unit rather than taught discretely. It also links to PSED units on safety, privacy and trusted adults.

Autumn A

Purple Mash Link	Photography Information Technology
Objectives	To be able to take a photo with an iPad.
Focused Teaching	How to hold and carry an iPad safely. Which icon to press to open camera. How to take a picture using the iPad camera. *Ext: evaluating images and deleting those that are not needed.*
Example activities	Taking photos around school site as part of PSED activities Taking photos of own work for Tapestry
Home Activity	N/A

Purple Mash	Hardware Digital Literacy
Objectives	To be able to make safe choices when using computing equipment and know why this is important. To identify the main parts of a computer.
Focused Teaching	Class discussion around safe and unsafe choices. Photo prompts to support (adapt from Purple Mash resource). Labelling of iPads and computers. *Linked displays using Widgit symbols.*
Example activities	Picture sorting – safe and unsafe choices. Making posters promoting safe choices Photo display of children using tech safely
Home activity	N/A

Autumn B

Purple Mash Link	Using Purple Mash with an Individual Login
	Digital Literacy
Objectives	To be able to login to Purple Mash and Mini Mash using my username and picture password.
Focused Teaching	Navigation to Purple Mash website on classroom iPads.
	How to use picture password to access account.
Example activities	Adult-led exploration of Mini Mash
Home Activity	Exploring Purple Mash at home – suggested activities on newsletter and/or Tapestry.

Purple Mash Link	Drawing Skills
	Information Technology
Objectives	To be able to draw using a touch screen.
	To be able to mark make purposefully on the screen.
	To be able to choose tools to experiment with, inc. changing colours.
	To be able to erase parts of pictures.
Focused Teaching	How to find a paint activity on Mini Mash.
	Which icon to use to change colour.
	Which icon to use to change mark making tools.
	Which tool/s can be used to erase parts of a picture.
Example activities	Drawing pictures linked to storytelling. Using paint programmes to represent ideas, independent exploration. Portraits of self, friends and family.
Home Activity	Focused drawing task linked to whole class theme/interest.

Spring A

Purple Mash Link	Robots
	Computer Science
Objectives	To be able to describe a route on a simple floor map.
	To plan and follow a route on a simple floor map.
	To program a 3-step route for a floor turtle
Focused Teaching	How to describe a route using the vocabulary of forwards, backwards and turn.
	How to programme a floor robot.
	Planning and programming a route for a floor robot.
Example activities	Following directions to move around an obstacle course. Recording commentaries of routes taken by people and/or toys. Small world toys and maps. Adult-led exploration of floor robots.
Home Activity	Describing route of journey from home to school.
	Tapestry observations of programmable toys.

Spring B

Purple Mash Link	Keyboard Skills
	Information Technology
Objectives	To be able to find individual letters and numbers on the keyboard.
	To use the spacebar.

	To use the delete key.
Focused Teaching	How to use the keyboard to achieve above objectives. Modelling and guided activities.
Example activities	Matching capital and lower-case letters. Typing names and other familiar words on keyboard. Typing lists.
Home Activity	Typing activity.

Purple Mash Link	Technology Around Us Digital Literacy
Objectives	To identify and talk about how technology is used at home. To identify and talk about how technology is used in the world around us.
Focused Teaching	Whole class discussions about technology used at home and in world around us.
Example activities	Sorting activities – old/new technology. Technology hunt around school – take photos of things found. Technology walks around school grounds with list of things to find. Technology in role play.
Home Activity	Technology treasure hunt.

Summer A

Purple Mash Link	Sounds Information Technology
Objectives	To know how to make music using a computer. To be able to record spoken words and play these back.
Focused Teaching	How to access the music making and sound effect areas of Mini Mash. How to use music making and sound effect areas of Mini Mash. How to record and play back spoken words on Mini Mash and iPads.
Example activities	
Home Activity	Exploration of music making in Mini Mash

Purple Mash Link	Keyboard Skills (Extension) *Repetition of previous Keyboard Skills input may be required.* Information Technology
Objectives	To be able to type both uppercase and lowercase letters using CAPS LOCK and Shift. To be able to use the arrow keys to move around the screen.
Focused Teaching	How to use the keyboard to achieve above objectives. Modelling and guided activities.
Example activities	Interest led use of Mini Mash activities.
Home Activity	Typing Quiz shared at end of half term (if appropriate).

Summer B

Purple Mash Link	Quizzes Information Technology
Objectives	To understand what a quiz is. To be able to complete the quiz types used on Mini Mash:

	1. Multiple choice
	2. Sequencing
	3. Questions
	4. Cloze
	5. Matching
	6. Sorting (links to science skills)
Focused Teaching	Guided completion of quiz activities in Mini Mash – small group work on iPads.
Example activities	Practical activities that practice the skills of sequencing, matching, sorting – link to interests and UtW focus.
Home Activity	N/A