



Knowledge Organiser



Subject:	Computing
Year Group:	Reception

Prior/Background Knowledge:

Children should start school: With some experience of using technology- tv, ipad, laptop, phone, camera etc

They should remember some of the rules to using equipment without an adult having to remind them.

Match their developing physical skills to tasks and activities in the setting and begin to explore how things work.



ELGs linked to computing skills

Managing Self: Be confident to try new activities and show independence, resilience and perseverance in the face of challenge.

Explain the reasons for rules, know right from wrong and try to behave accordingly.

Creating with materials: Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.

Autumn 1:

Introduce use of **iPad, laptops, interactive whiteboard** and **cameras**

Home corner: Children to have access to calculators, cameras, phones etc to use in their play

Technology all around us: children to discover the technology we use every day. Understand that technology can solve a problem. Homework to list all the technology in their home.

Ipads: children to take selfies for our welcome display

Purple Mash:

To explore the Simple City Map

Paint- homes and my family, Autumn tree, leaves and acorn, Harvest basket and veg box, Rangoli patterns/diva lamp

English- Purple Mash fruit bowl painting for Handa's Surprise
Mashcam: Little Red Riding Hood

Autumn 2:

Use beebots and remote-control cars- to follow routes and maps. Linked to transport topic.

Purple Mash:

Simple City- garage Maths City- space

Paint- transport, fireworks, Hanukah, Christmas tree, stocking, Santa and plate, Pumpkin, Poppy

Use the **mashcam** to create a calendar to go home.

Mashcam: Astronaut/rocket and elf/santa.

Spring 1:

Safer Internet Day

Purple Mash:

Learn how to use **passwords**

Design a gingerbread man and other food. Explore the café in Simple City.

Paint: Winter tree, Seder plate (Passover), Chinese fan, lantern and dragon, design a superhero and a cape, people who help us.

Mashcam: superhero

Email: Email a local hero to find out more.

Spring 2:

Children will use the iPads to take photos of what they observe in the garden and also to track progress in growth of beans/frogspawn

Purple Mash:

Maths City garden

Paint: Spring tree, Garden painting + places garden, Easter egg

English: Purple Mash paint a castle (fantasy stories) Jack and beanstalk

Summer 1:

Purple Mash:

Maths city farm **Paint:** animals

Summer 2:

Purple Mash:

Paint: sea creatures, Summer tree, rainbow (Rainbow Day), pirate island and rock pool (places), Pirates etc,

Mashcam: Diver/pirate/submarine

English:

Explore 2publish- create own underwater adventure story

Charanga: Using ICT to compose a song as part of the music unit of work

ONGOING:

QR codes to listen to stories on iPads.

The IWB will be available throughout the day with different games on:

Purple mash: Maths: paint numbers and represent numbers, ladybird doubles, addition, number bonds, 1 more 1 less, shop on maths City, counting quizzes, ordering numbers quizzes, measuring, position and direction **Phonics:** Painting the letters, alphabet pairs, paint- clock, shapes and shape pictures

Phonics play

Paint for Eid mosque and mendhi, birthday cake- when a class birthday helping hands design a cake for them, wedding cake- if relevant

Keeping safe:

PSED: Children know and talk about the different factors that support their overall health and wellbeing: sensible amounts of screen time. Parents are also told about the importance of children playing age-appropriate games

Safer Internet Day Children will learn:

- What is the internet: **homework** to list how they use the internet at home.
- To always have a grown-ups permission to use the internet
- Who to tell if they feel unsafe on the internet.
- To never tell anyone online personal details
- To never give their password to anyone.

Children will receive their Purple Mash passwords to help put this rule into practice.

Throughout the week read a variety of stories at story time to reiterate the safety rules: **digital duck (safer internet site)**, **Old Macdonald had a phone**, **#Goldilocks**, **Chicken Clicking**, **Buddy the Dog (Twinkl)**

Key computing vocabulary:

Computer, iPad, laptop, phone, mouse, keyboard, selfie, password, safe, Internet, technology, electricity, charging

Continuous Provision:

IWB- constant

Ipads x1 afternoon a week

laptops x1 day a week