Trumps Green Infant School Computing Curriculum River

Reception

Computing is not explicitly mentioned within the EYFS curriculum, however there are still many opportunities for the children to use technology to solve problems and produce creative outcomes i.e. Taking a photograph with a camera or tablet, playing games on the interactive board or tablet, exploring mechanical toys, using BeeBots and listening to music. Children are introduced to online safety and how to access technology within school safely. This is continuously reinforced throughout the year through PSHE and Safeguarding assemblies which teach the children about online safety.

Year 1

Computing systems and networks:

Identify technology and how it helps us

Name the main parts of a computer

Use a keyboard and mouse

Create rules for using technology safely

Vocabulary: tecnology, computer, keyboard, mouse, trackpad, keyboard, screen, double click, typing

Information technology :

Recognise that information can be presented in different ways.

Collect simple data

Recognise that tools can be changed to produce different outcomes

Choose options to achieve a desired effect

Consider the impact of choices made.

Recognise that a keyboard is used to enter text

Recognise that a text can be changed and edited

Choose options to achieve a desired outcome

Consider the impact of choices

Vocabulary: paint program, tool, paintbrush, ease, fill, undo, line fill, tool fill, shape tool, fill tool, brush style, colour, word processor, keyboard, letters, type, shift, delete, toolbar, dragging, double click, letters

Computer Science

Predict the outcome of a command on a device

Choose a series of words that can be enacted as a program

Build a series of commands

Run a program on a device

Vocabulary: algorithm, command, sequence, program

E-Safety

The adventures of Smartie the Penguin—online safety

Understand what pop ups and online purchases are and how to response to them safely.

Understand that not all websites are appropriate for children and we should always check with a trusted adult before going on a website

Understand that not everything we read is true on the internet

Understand we should only use age appropriate sites that our trusted adult has approved in order to avoid images that might upset us.

Understand we can't trust everyone online and how we can protect ourselves

Vocabulary: trusted, online, internet, app, trusted adult

Year 2

Computing systems and networks:

Describes some uses of computers

Identify technology in school

Identify information technology beyond school

Show how to use technology safely

Vocabulary: information technology, computer,

Information technology:

Use technology purposefully to create, organise, store, manipulate, and retrieve digital content

Recognise that information can be stored on a computer

Explain that information can be saved

Explain that information can be stored, retrieved, edited and re-saved

Recognise that work can be shared between devices

Use a computer to view data in different ways

Vocabulary: shared, edited, devices, stored, organised, attributes, group

Computer Science

Recognise that a series of instructions is a sequence

Recall that a series of instructions can be issued before they are enacted

Use logical reasoning to predict the outcome of a program

Test a prediction by running a sequence

To create and debug a program.

Vocabulary: scracthJnr, debugging, program, unambiguous, clear, instruction, prediction,

E-Safety

Hectors World—online safety

Understand what personal information means

Understand personal information is unique to them

Understand that not everyone is trustworthy and identify characteristics of people that are worthy of trust

Identify situations when a trusted adults help maybe needed

Understand our emotions and physical sensations can alert us to unsafe situations

The importance of checking with an adult before participating in an online environment

To be open with trusted adults about online experiences

Vocabulary: trust worthy, characteristics, emotions, alert, personal information, online