Year 3 – ICT – Autumn 1 – Coding

Key Questions:
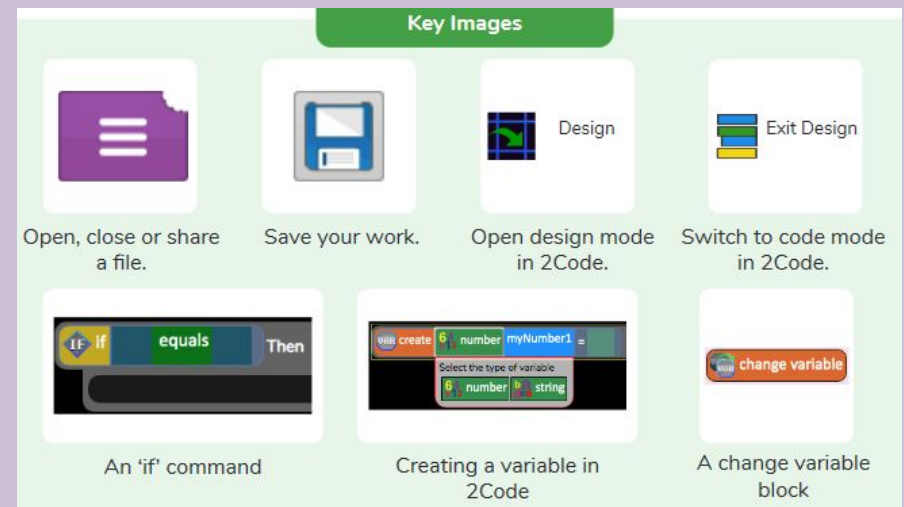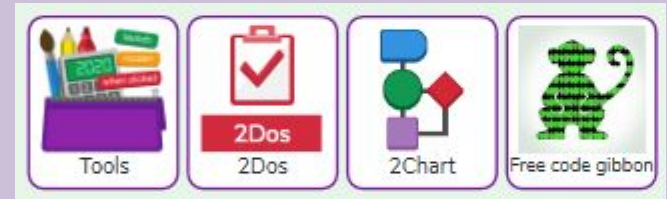What is the difference between the different object types in 2Code Gibbon level?
What does selection mean in coding and how can you achieve this in 2Code?

What will I learn?
- To design algorithms using flowcharts.
- To design an algorithm that represents a physical system and code this representation.
- To use selection in coding with the 'if' command.
- To understand and use variables in 2Code.
- To deepen understanding of the different between timers and repeat commands.

Activity:
Can you add a sound to an object in 2Code?

Key words: event, object, computer simulation, if, input, properties, output, repeat, variable, timer

Tools | 2Dos | 2Chart | Free code gibbon

Key Images

Open, close or share a file. | Save your work. | Open design mode in 2Code. | Switch to code mode in 2Code.

An 'if' command | Creating a variable in 2Code | A change variable block

Year 3 – ICT – Autumn 2 – Online Safety and Spreadsheets

ONLINE SAFETY

SPREADSHEETS

Key Questions:
Is everything I read on the Internet true?
How do I know if I am old enough to play a computer game?

Key Questions:
Explain how you would collect data to find out children's favourite school subjects. What sort of graph would you create?
Explain how you would locate a cell in advanced mode?

What will I learn?
• To know what makes a safe password.
• Methods for keeping passwords safe.
• To understand how the Internet can be used in effective communication.
• To understand how a blog can be used to communicate with a wider audience.
• To consider the truth of the content of websites.
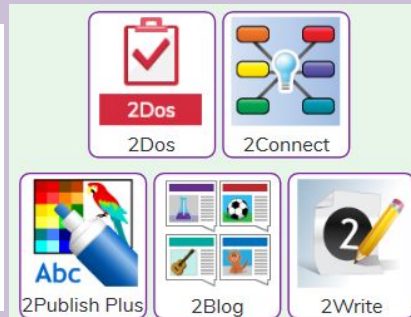• To learn about the meaning of age restrictions symbols on digital media and devices.
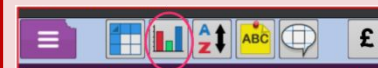
What will I learn?
• To use the symbols more than, less than and equal to, to compare values.
• To use 2Calculate to collect data and produce a variety of graphs.
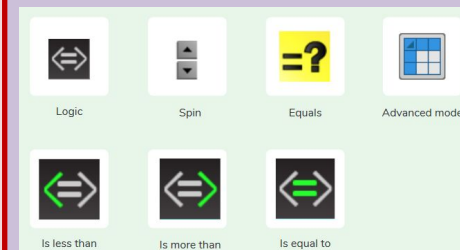• To use the advanced mode of 2Calculate to learn about cell references.

Key words: blog, website, internet, concept map, spoof website, username, PEGI rating

Activity:
Put the following information into a spreadsheet:

Vanilla	2
Chocolate	1
Strawberry	4
Mint	3
Pistachio	1

Now click on the Chart button. What things can it do to your data?

Key words: advanced mode, spin tool, image toolbox, column, row, equals tool, cells.

lillian@2simple.com

••••••••

Log in

Username and Password screen

2Dos

2Connect

2Publish Plus

2Blog

2Write

Logic

Spin

Equals

Advanced mode

Is less than

Is more than

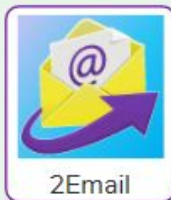Is equal to

Key Questions:
What is an Email?
What should I do if I receive and email that makes me feel scared or upset?
What information can I send in an email?

What will I learn?
- To think about different methods of communication.
- To open and respond to an email using an address book.
- To learn how to use email safely.
- To add an attachment to an email.
- To explore a simulated email scenario.

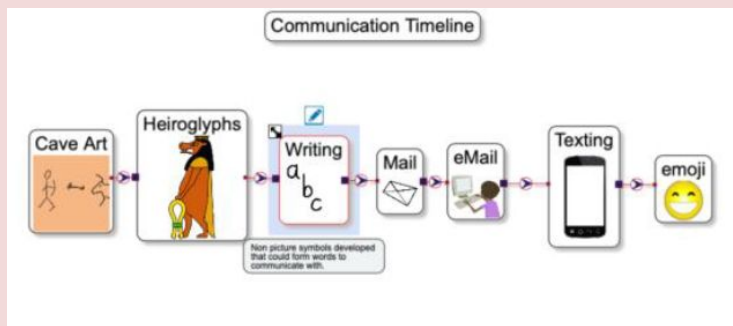**Key words: compose, address book, save to draft, formatting, CC, communication**

2Email

2Connect

2Do It Yourself

Activity:
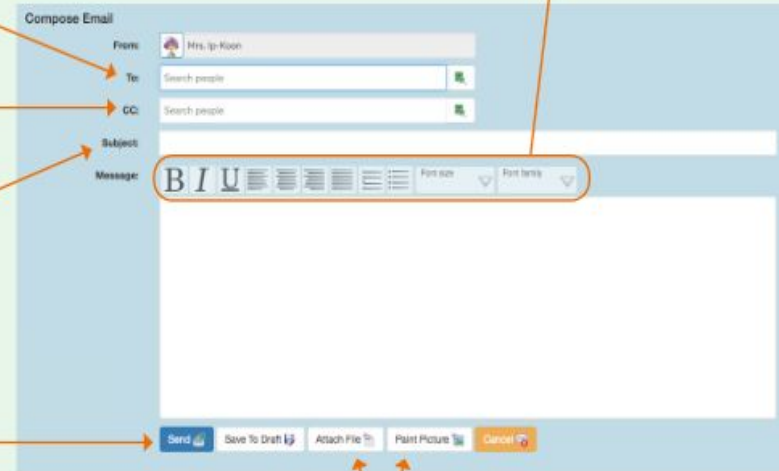How long do you think we have been emailing each other for?

Communication Timeline

Cave Art

Heiroglyphs

Writing
a
b
c
Non picture symbols developed that could form words to communicate with.

Mail

eMail

Texting

emoji

Formatting bar where you can change how the message looks.

Who is the email to be sent to?

Who else will the email be sent to?

What is the email about?

Compose Email

From: Mrs. Ip-Koon
To: Search people
CC: Search people
Subject:
Message: B I U ... Font size Font family

Click this button to send the email.

Send Save To Draft Attach File Paint Picture Cancel

Allows you to attach work and pictures to the email

Year 3 – ICT – Spring 2 – Typing and Branching Databases

TYPING

BRANCHING

Key Questions:
Why should I have good posture at the computer?
Why should I type certain keys with certain fingers?

Key Questions:
What is meant by data?
What is a database?
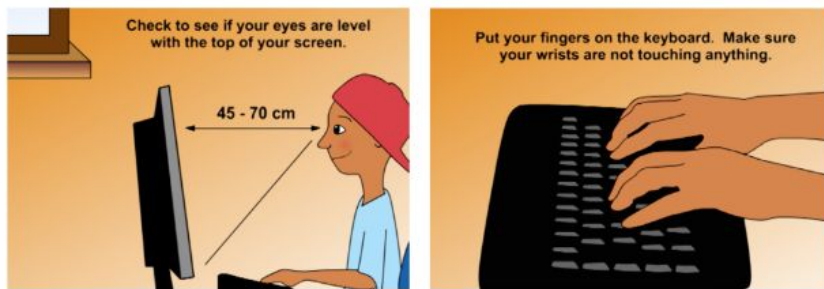What is a branching database?

What will I learn?
- To introduce typing terminology.
- To understand the correct way to sit at the keyboard.
- To learn how to use the home, top and bottom row keys.
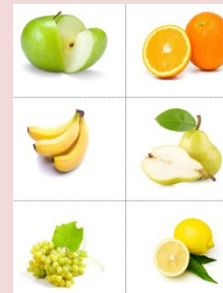- To practice typing with the left and right hand.

What will I learn?
- To sort objects using just 'yes' or 'no' questions.
- To complete a branching database using 2Question.
- To create a branching database of the children's choice.

Key words: posture, top row keys, home row keys, bottom row keys, space bar

Key words: branching database, database, question, data.

Activity:
Can you check your own posture to see if you are sitting at the keyboard correctly?

Check to see if your eyes are level with the top of your screen.

45 - 70 cm

Put your fingers on the keyboard. Make sure your wrists are not touching anything.

Posture

Activity:
How could you sort these fruits into different groups?

Key Images

Title

Open, close or share a file

Give the database a name

Prompt
Click to Edit
+

Add a question to begin to sort the information

Year 3 – ICT – Summer 1 – Simulations

Key Questions:

What is a computer simulation?

What kinds of simulations are there?

Are there any problems with simulations?

What will I learn?

- To consider what simulations are.
- To explore a simulation.
- To analyse and evaluate a simulation.

Key words: simulation, prediction, analyse, represent, real, imaginary

Activity:

Can you think of a real-life situation that would be too difficult to try out? What about travelling to space? Or exploring the very bottom of the ocean? Simulations let us see what might happen without actually doing it.

Try this activity in the 2Simulate program:

The Dark Side of Elpmis

The Dark Side of Elpmis
Trainee astronauts get ready for a mission to the planet Elpmis.

Activity   Resources

2Simulate

Year 3 – ICT – Summer 2 – Graphing

Key Questions:
What is a graph?

What are the frame lines on a graph called?
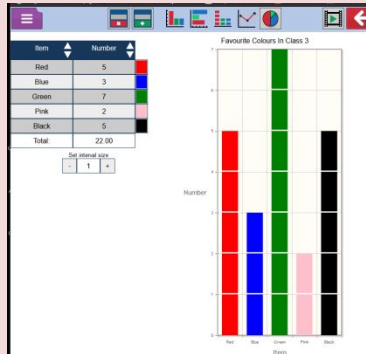
What different kinds of graph are there?

What will I learn?
- To enter data into a graph and answer questions.
- To solve an investigation and present the results in graphic form.

Key words: graph, bar chart, pie chart, field, block graph, data, row, column, line graph

Activity:
Click on Favourite Colours in 2Graph. How many different ways can you show the data in graph form?

Key Images

Insert the name of the graph here.

Add and remove a row from the graph.

Vertical Bar Chart

Horizontal Bar Chart

Block Graph

Line Graph

Pie Chart

Data entry table