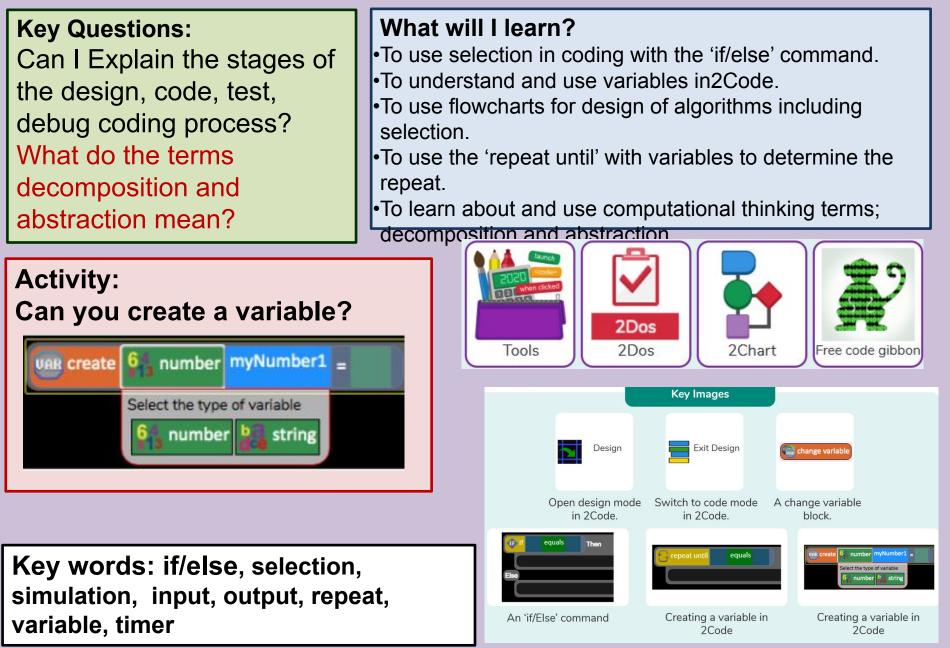
Year 4 – ICT – Autumn 1 – Coding



Year 4 – ICT – Autumn 2 – Online Safety and

Spreadsheets

Key learning

A digital footprint is information on a person. SPAM is digital junk mail.

Plagiarism is pretending someone else's words are yours.

I will learn:

- •How I can protect myself from online identity theft.
- •That information put online leaves a digital footprint or trail and that this can aid identity theft.
- •To identify the risks and benefits of installing software including apps.
- •That copying the work of others and presenting it as their own is called 'plagiarism' and to consider the consequences of plagiarism.
- •To identify appropriate behaviour when participating or contributing to collaborative online projects for learning.
- •To identify the positive and negative influences of technology on health and the environment.
- •To understand the importance of balancing game and screen time with other parts of my life.

Key words: virus, digital footprint, Phishing, cookies, plagiarism, malware, SPAM, copyright



2Investigate

SPAM

2Connect

What will I learn?

•Formatting cells as currency, percentage, decimal to different decimal places or fraction.

- •Using the formula wizard to calculate averages.
- •Combining tools to make spreadsheet activities such as timed times tables tests.
- •Using a spreadsheet to model a real-life situation.
- •To add a formula to a cell to automatically make a calculation in that cell.

Activity:

Put the following information into a spreadsheet:

Vanilla	2
Chocolate	1
Strawberry	4
Mint	3
Pistachio	1

Calculate what percentage of the class like Strawberry and vanilla. Key words: advanced mode, spin tool, image toolbox, column, row, equals tool, cells.



Year 4 – ICT – Spring 1 – Writing for Different Audiences Key Questions: Why should I change the font when I am Key words: font, bold, italic, underline

Activity:

Write a letter about how you enjoy using a computer to write with.

Now change the font to make it look:

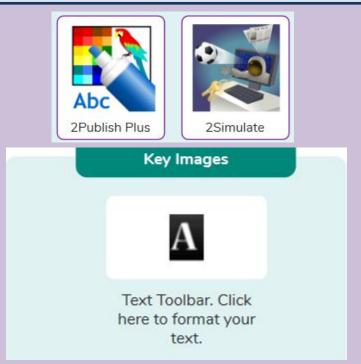
-Formal

-Informal

-Exciting

-Boring





Year 4 – ICT – Spring 2 – Logo and Animation

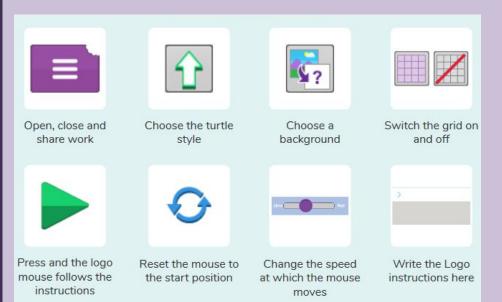
LOG

Key Questions:

What is Logo? How do I repeat a command?

What will I learn?

- To learn the structure of the coding language of Logo.To input simple instructions in Logo.
- •Using 2Logo to create letter shapes.
- •Using 2L0g0 to create letter shapes.
- •To use the Repeat function in Logo to create shapes.
- •To use and build procedures in Logo.



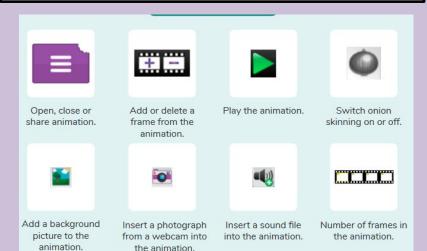
ANIMATIO

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

What will I learn?

- To discuss what makes a good animated film or cartoon.
- •To learn how animations are created by hand.
- To find out how 2Animate can be created in a similar way using the computer.
- •To learn about onion skinning in animation.
- •To add backgrounds and sounds to animations.

Key words: animation, onion skinning, frame, flipbook, stop motion, background



Year 4 – ICT – Summer – Effective Searching

Key statements:

A search engine is a special website that makes it easier to find information on the internet.

You can check to make sure a website is not a hoax by looking closely at the URL. You fact-check information by looking at the source of the information and the date it was written.

I will learn:

To locate information on the search results page.
To use search effectively to find out information.
To assess whether an information source is true and reliable.

Key words: Easter egg, Internet, internet browser, search, search engine, spoof website, website, hoax, fact-check



Year 4 – ICT – Summer – Hardware

Key Statements:

Hardware is the physical components of a computer. Software is the program that runs on a computer. A peripheral is a device that you put information into and get information out of.

There are 5 main parts of a computer:

- ★ A motherboard.
- ★ A Central Processing Unit (CPU)
- ★ A Graphics Processing Unit (GPU), also known as a video card.
- ★ Random Access Memory (RAM), also known as volatile memory.
- ★ Storage: Solid State Drive (SSD) or Hard

Key words: motherboard, CPU, RAM, graphics card, network card, monitor, speakers, keyboard, mouse



What I have learned already:

Computers can be used for spreadsheets, coding, sending emails, playing games etc. I know how to keep myself safe on a computer and that a computer can contain viruses. I can use logo and know how to control different parts of a computer.

Year 4 – ICT – Summer – Making Music

Key statements : Melody adds to the quality of the music. Rhythm adds to the pace of the music

l learn: To identify and discuss the main elements of music. To understand and experiment with rhythm and tempo. •To create a melodic phrase. To electronically compose a piece of music.

Key words: pitch, tempo, melody, rhythm, dynamics, rippler, pulse, texture, house music





Open, save and share work.



Stop the music by pressing this button.



Play and add

different notes or

synths.

120 bpm







Clicking on the rippler triggers the sounds.



This changes the speed - beats per minute.

Record, stop

Play and add

different sample

sounds.

recording of replay your work.

