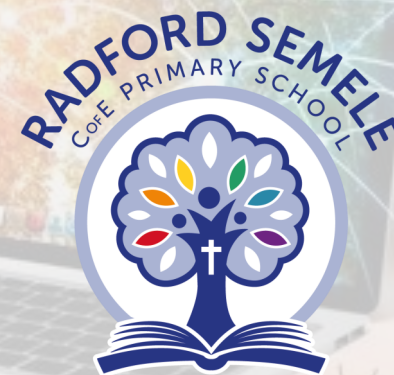


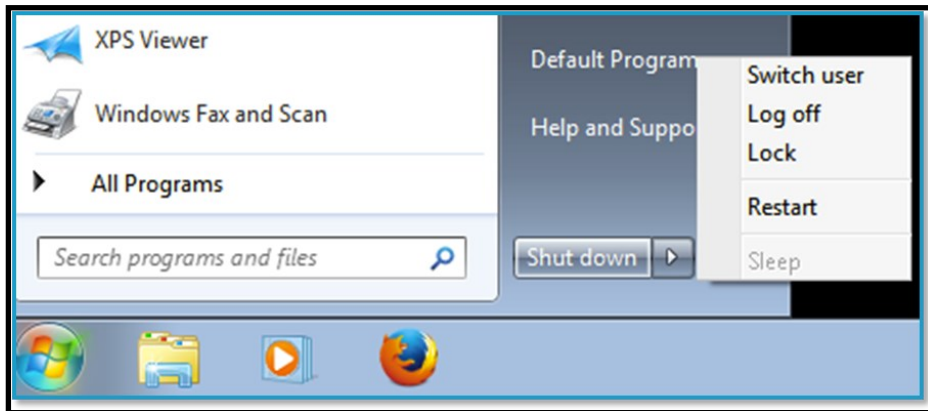
Year 1 Computing Knowledge Organisers



Computing Knowledge– Year 1—Autumn 1—Technology Around Us

Online Safety and Digital Literacy

Passwords are used to protect our information, accounts and devices—they are made up of a combination of letters and numbers that we have to keep a secret. Private information is information that includes our address, where we go to school and full name. It shouldn't be given to anyone unless a trusted adult says it is OK. We also have to make sure not to give anyone else's information away.



Vocabulary

Shut down	Turning off a computer properly and letting it close everything
Applications	Programs and apps that we can use on devices for different purposes
Folders	Somewhere to save files, usually grouped together
Dragging	Moving something across the screen on a computer
Trackpad	The pad on a laptop which works the same as a mouse

- A computer mouse or trackpad allows for clicking, selecting and dragging icons on a computer or laptop
- It is important to turn on and shut down devices safely to avoid any damage to the device
- Applications and programs allow us to do different things on a device
- To open an application or program we either double click on an icon or find it in the relevant folder
- We need to save our work in a folder so that we can find it again to work on later
- Dragging allows us to move icons or files around on a computer

Computing Knowledge– Year 1– Autumn 2—Digital Writing

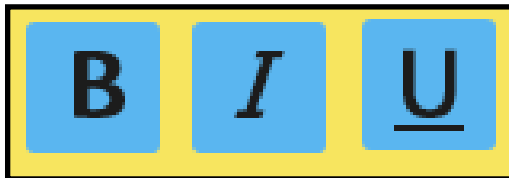
Online Safety and Digital Literacy

We need to make sure that we are not upsetting other people online. What we say can have an impact on them.

It is important to recognise that information can stay online and could be copied by others. Information should not be put online without asking a trusted adult first. Some information is personal and should not be given to anyone who we do not know offline as well.

Vocabulary

Delete	A button on the keyboard which gets rid of text
Space bar	A button on the keyboard to insert room (a fingerspace) between letters
Keyboard	Used for typing onto a screen; an input
Save	A button to press to keep work for later so you can return to it
Format	Changing the size or the colour of the font (typing).



- We need to press a button to give us capital letters.
- Between each word it's important to press the space bar.
- The program automatically starts a new line when it runs out of room.
- If we need to start a new line to show a paragraph, we can press 'enter' or 'return'.
- It is important to save work so that we can keep working on it later.
- Words and letters can be deleted using delete or backspace.
- The font can be changed and be a different size or colour.

Online Safety and Digital Literacy

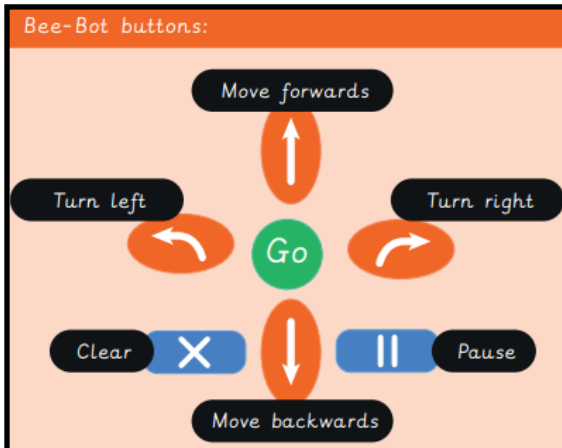
It is important to know when to ask permission before doing something online and why this is important. The internet can be used with adult support as a way of communicating with others, through video call apps and other services.

We need to remember to be considerate and kind to people online and to respect their choices. Things one person finds funny or sad online may not always be seen in the same way by others.

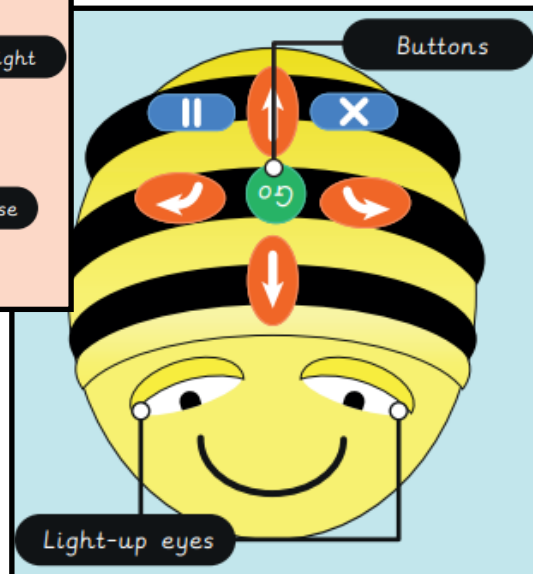
Vocabulary

algorithm	A clear set of instructions for a computer to follow
Beebot	A small programmable floor robot
debugging	Finding and fixing problems in a program
instructions	A list of commands on how to do something
program	Giving a computer instructions to follow

Computing Knowledge



Digital Art

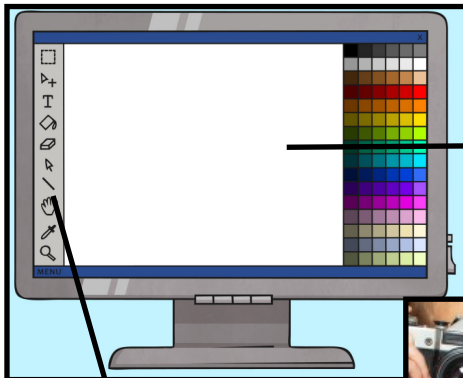


- .An algorithm is a list of instructions to explain how to complete a task.
- Algorithms have to be clear and written in the right order so that the computer know exactly what to do.
- By giving a computer or a programmable toy instructions, we are programming them.
- If the program doesn't run properly, it needs to be debugged—this is where you work out what went wrong and fix it.
- Programming a Beebot means giving it instructions or an algorithm to move around and get it to the right place.

Online Safety and Digital Literacy

There may be people online who could make someone feel sad, embarrassed or upset. If something happens that makes us feel this way, it is important to speak to a trusted adult so that they can help.

Digital work is still owned by somebody—whether they created it or filmed it, it belongs to them. Work that we create using technology belongs to us. It is important to save work under a suitable name so that it can be found again. Other people's work belongs to them even if a copy has been made by somebody else.



Digital
drawing
space

Tools

Different cameras



Vocabulary

Password	A secret mixture of letters and numbers that let you in to your account
Personal information	Information that's about you
Photographs	Pictures taken with a camera showing real objects or scenery
Tools	Something with a set purpose to help you with your task e.g. paintbrush for painting
Digital	Used or created by electronic technology, such as a computer.

- iPads can be used to take photographs, as well as any other electronic item with a camera in it.
- Cameras can zoom in to take closer photographs
- Filters used for editing colouring.
- Digital artwork can be created using paint programs.
- There are several tools that can be used to digitally paint, such as the paintbrush, the rubber and the fill tool.
- Line and shape tools can also be used to create digital artwork—these can be moved around to put it in the right place.

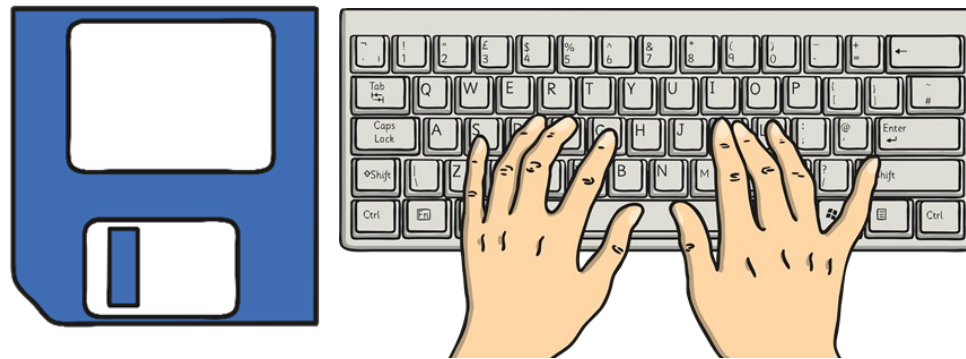
Computing Knowledge– Year 1– Summer 1—Using and Applying Skills

Online Safety and Digital Literacy

We can use different digital technologies, such as search engines and voice activated searching, to find information.

We may see a range of things online including things that we like and don't like. We may also see things which are real or make believe.

It is important to get help from a trusted adult if we see anything that makes us feel sad, uncomfortable, worried or frightened.



Vocabulary

Minimise	Shrinking a file or window to the taskbar
Taskbar	A row of buttons and icons usually at the bottom of the screen, giving information
Shift	A key on the keyboard, often used for capital letters or other symbols
Restore	Clicking on a minimised window to bring it back onto screen
Software	Programs that tell a computer what to do

- We use a range of skills when using technology and computers
- Text can be formatted and saved
- Work can be saved and opened to edit at a later date
- Images can be created on computers using different software

Computing Knowledge– Year 1– Summer 2—Animation

Online Safety and Digital Literacy

It is important to know how to keep ourselves safe when using technology, both inside and outside the home.

We also need to know how to stay healthy when using technology. There may be rules that we have at home to help us.

Vocabulary

Algorithm	A clear set of instructions for a computer to follow
Code	A set of instructions written in programming language; to tell a computer what to do
Sprite	An object that can be moved as part of ScratchJr. sequences
Loop	A repeated set of instructions
Sequence	A set order or pattern for something to follow



- We can build a set of instructions for a computer, or an algorithm, using code.
- ScratchJr. uses building blocks of code that help us to create a sequence for a character to follow.
- These blocks of code can make a character move, change direction, make a sound as well as other things.
- The blocks of code can also be looped so that the code goes back to the beginning when it reaches the end.
- We can change the look of the program by changing the background or our character.