

Year 2 Computing Knowledge Organisers

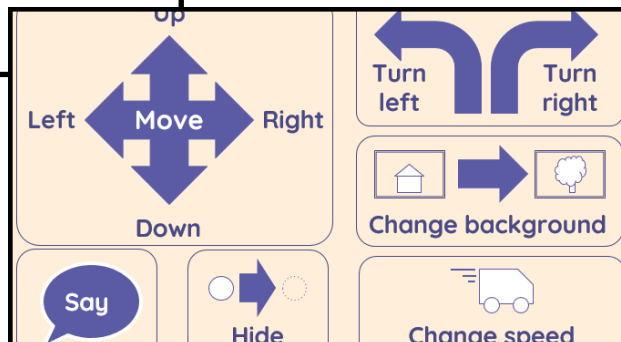
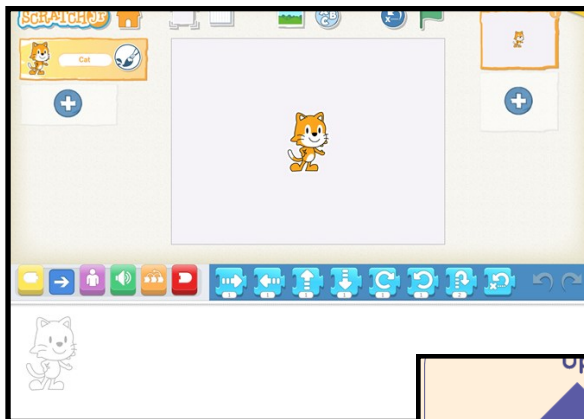


Computing Knowledge—Year 2—Autumn 1— Scratch Quizzes

Online Safety and Digital Literacy

People may look and act differently online and offline. There are issues online that might make someone feel sad, worried, uncomfortable or frightened. It is important to understand how they can get help if they are made to feel this way.

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

Sequence	The order that a computer follows commands.
Command	Telling a computer to perform a certain action.
Program	Choosing and ordering instructions for a computer to follow
Predict	Estimate the outcome of a program by looking at the sequence
Blocks	Small parts of code that we can build to make a sequence

- A series of instructions is called a 'sequence'.
- Sequences can be issued and the computer will only run them when we press 'start' or 'run'.
- When the order of instructions changes, the order that the computer performs the actions changes.
- We can predict the outcome of a sequence by looking at the blocks of code and understanding what they are telling the computer to do.
- It is important to test a sequence and identify any errors.

Online Safety and Digital Literacy

Some people may bully others and it is important to understand how bullying can make someone feel. Anyone who experiences bullying is not to blame and there are different ways of getting help for anyone who is experiencing bullying.

Vocabulary

Editing	Making changes to something; in this case, a photograph
Focus	If a photograph is 'in focus', it is not blurry
Portrait/landscape	Describes which way a photograph was taken; portrait is often used for people and landscape for scenery.
Framing	Putting the object in the right place in the photograph
Lighting	Altering how light or dark the photograph is



Landscape



Portrait

- Cameras can be inside lots of different electronic items, such as laptops and iPads.
- Photographs can be taken in either landscape or portrait; portrait is usually used for taking a picture of a person, with landscape used for scenery.
- Framing is used to make it clear what the main subject in the photograph is so it can be seen.
- Zooming in or out can help see more detail or add more background to the photograph.
- Photographs can appear darker so it's important to make sure there is enough light.
- Filters and effects can be used to edit the colouring of a photograph or how it makes us feel.

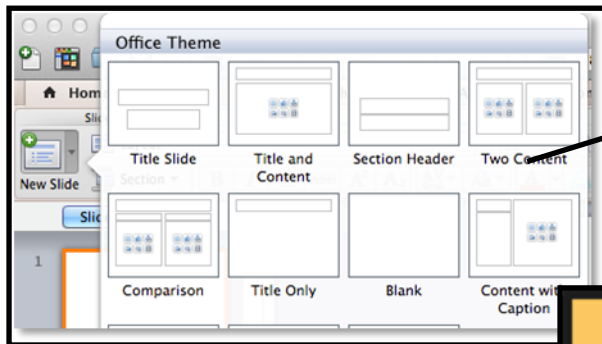
Online Safety and Digital Literacy

Information put online about someone can last for a long time. Anyone's online information could be seen by others so it is important to think carefully about what information is put online.

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.

Vocabulary

Folder	A place to collect files and work on a computer to keep them together
Presentation	A way of giving information with text and pictures
Slide	One page of a presentation, several can be added
Layout	The appearance of a slide or document.
Format	Changing the size, layout or colour of text and pictures



Layouts

Folder



- Work on a computer can be saved in a folder. A folder lets us keep work together.
- Presentations are used to display information, with slides acting as pages.
- We can change the layout of a slide, choosing how to set out the pictures and text.
- Pictures can be resized but it is important to do so from the corner and not from the sides to stop it becoming distorted
- Slides can be reordered to change the order of the presentation
- Saved files can be searched for by using key words

Online Safety and Digital Literacy

It can be risky to use technology to communicate with others we don't know offline. It is important to ask a trusted adult before sharing personal information or information about others online. There are several different ways of asking for, giving and denying permission line with adults to help if needed. We always have the right to say 'no' or 'I will have to ask someone'. Adults can help if there is pressure to agree to something we are unsure about or don't want to do. It is also important to know how it may make others feel if we do not ask their permission before sharing something about them online.



Vocabulary

IT	Information technology—using computers and devices to handle information
Device	Equipment created for a certain purpose or job
Computer	Electronic machine that accepts and processes information
Barcode	A machine-readable code made up of numbers and a pattern of lines
Scanner	A device for examining, reading or monitoring something

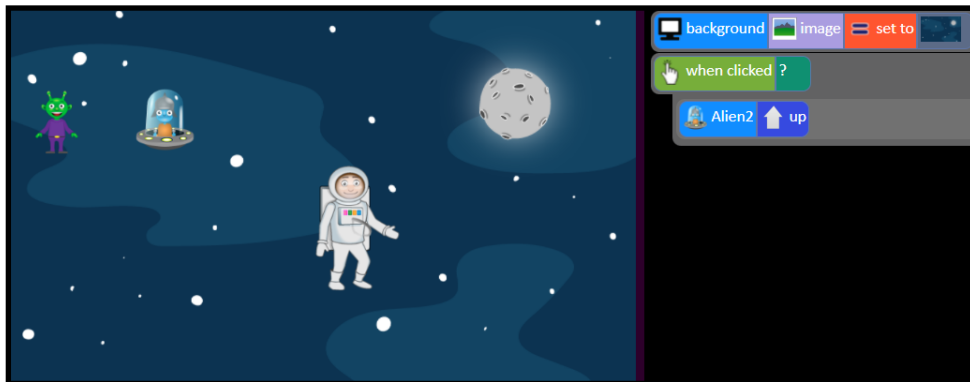
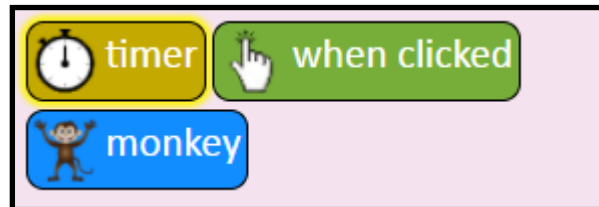
- IT can be used in lots of different ways, both in school and outside of school.
- Some IT devices are computers that we may already be familiar with.
- There are lots of different examples of IT.
- IT can be used in workplaces and in shops to help us with our daily lives.
- Some devices can work together and help to make our lives easier.
- There are different rules linked with devices to help us stay safe when using them.
- Sometimes IT may need to be used in different way.

Online Safety and Digital Literacy

Simple keywords are used in search engines to help us find the results that we need. There are other tools on webpages, such as home buttons and links, that can help us find information.

Voice activated searching is another way of searching, such as Alexa or Siri, but is not a real person.

There is a difference between things that are imaginary or made up and things that are true or real. Some information that we find online may not be real or true.



Vocabulary

Algorithm	A clear set of instructions for a computer to follow
Debugging	Finding and fixing problems in a program
Code	A set of instructions written in programming language that tells a computer what to do
Program	Giving a computer instructions to follow
Consent	Giving permission for a person or a company to do something

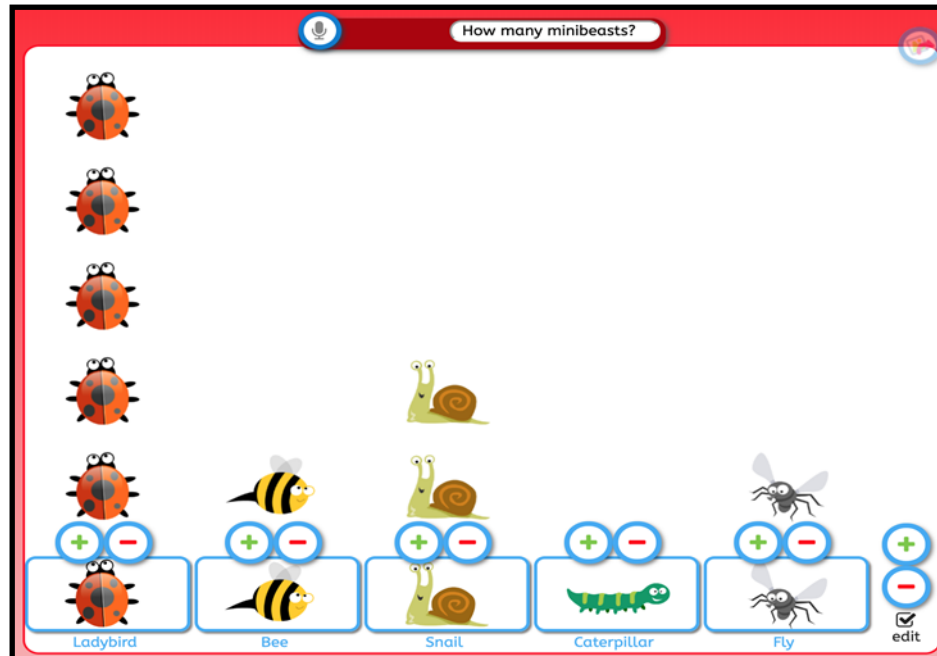
- An algorithm is a set of instructions that tells a computer or program what to do.
- We need to test code to make sure there are no problems in it—this is called debugging
- Instructions need to be in the right order so the computer knows what to do first
- Instructions also need to be clear so that the program knows exactly what to do
- Breaking down code into smaller chunks can help to spot the mistake and debug it
- Simple code and programs use coding blocks to help program.

Online Safety and Digital Literacy

Technology can be used in different environments and settings, such as in public places and at home as well as at school. There are rules that can help us use technology in these different settings. Having these rules and guides in place can help anyone when accessing online technologies.

Vocabulary

Data	Information that has been collected about a group
Tally chart	A way of recording data
Comparison	Looking at similarities and differences in totals or attributes
Attribute	A property which can lead to objects being grouped
Pictogram	A way of presenting data clearly



- Data can be collected and grouped by attributes to help organise it
- Data can be organised and presented in different ways
- Some information should not be shared
- Data can be entered into a computer to help with organising it
- People, animals and objects can all be described by attributes
- Using computers allows us to view data in different formats
- Using computers also helps us to answer comparison questions