

Year 2, Term 1– Knowledge Organiser — Computing—Animals in the Wild

Subject Specific Vocabulary

word	definition
device	A mechanical or electronic piece of equipment
computer	An electronic device for storing and processing information
Information technology	Anything that is a computer or works with a computer
Store	Keep for future use.
Search	Look for a specific item.
Save	Store

Information Technology

Information technology can be found all around us in school, at home and in the world.



Devices can be used for a range of purposes. We should try to follow a balanced digital diet.



Interesting Website

www.ictgames.com

A wide selection of Maths and Literacy games. Popular games include



'Counting Caterpillar, Save the Whale and Poop Deck Pirates.

Home Challenge!

How many types of information technology can you find in your home?

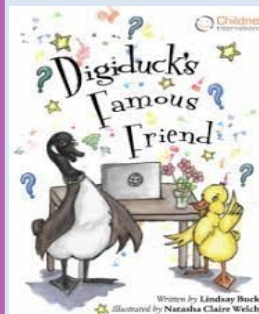
Make a poster of how you can use the devices in your home safely for different purposes.

E-Safety—

We will be learning about the online world and the rules for using devices safely:

1. Ask the adult first.
2. Only talk to people you know
3. Stick to the places that are right for you.

E-Safety Book:



Year 2, Term 2— Knowledge Organiser —Computing—Victorian Bristol

Subject Specific Vocabulary

word	definition
Capture	To take a picture using a camera
Landscape	When an image is captured holding a device horizontally or side-ways
Portrait	When an image is captured holding a device horizontally or up-right

Digital Photography

Photographs can be captured by many devices.

They can be captured portrait or landscape.

It is important to remember what makes a good photograph:

Taking a good photograph



Framing: Have you included everything you wanted to?



Positioning: Is it obvious what the main subject of the photograph is?



Subject: Are you close enough that you can see the detail?

This term we will also be making our Christmas performances. Use a device to capture photographs of your favourite bits.

Interesting Website

<https://pixlr.com/e/>

This website has lots of photographs stored already.

Can you choose one to add your own effects to?

Home Challenge!

Can you take photos of different objects around your home?
Remember to think about whether they would be best captured portrait or landscape.

Portrait or landscape?



Upright = portrait



Sideways = landscape

E-Safety

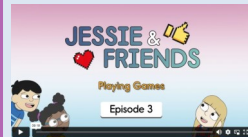
When you're playing an online game, it's important that you know exactly who you're talking to.

Always tell an adult if you feel worried or unsure about something.



E-Safety Video:

Playing games



[6-7s Homepage | CEOP Education](#)



Collect the online gaming badge

Year 2, Term 3—Knowledge Organiser —Computing—Around the World in 28 days

Subject Specific Vocabulary

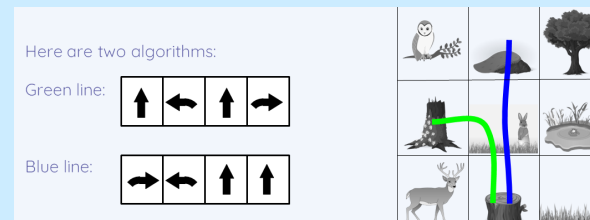
word	definition
algorithm	Step by step instructions that a computer follows
code	A language that computers can understand
decomposition	Breaking tasks into smaller chunks.
debugging	Finding and fixing errors in algorithms

Floor robots

Instructions need to be clear and precise.

Several instructions will combine to create a sequence.

Instruction in different sequences, create different algorithms with different outcomes.



Computer programs are more than code. They contain artwork too.



Interesting App

Bee-Bot

App store/Google Play

Cost: Free

Aimed at: 4+

Your child will learn to program this device in school. The app will support them in their learning of directions and programming in ICT.



Home Challenge!

Can you use Google Earth to find and locate and explore different places around the world?

What is similar about the streets and homes you see?

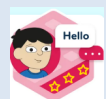
What is different about the streets and homes you see?

E-Safety We will learn about keeping our information safe.

Private Information is...

- Name
- Address
- Telephone
- School
- Email address

E-Safety Video:



[6-7s Badges \(thinkuknow.co.uk\)](http://thinkuknow.co.uk)

Collect the chatting online badge.

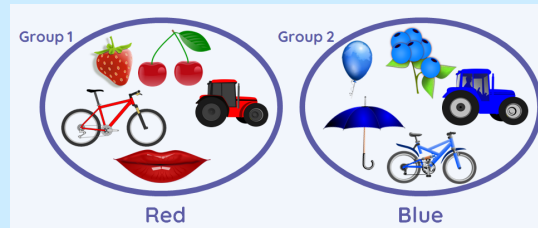
Year 2, Term 4—Knowledge Organiser —Computing—Explorers

Subject Specific Vocabulary

word	definition
Data	information
Tally	A simple way of recording and counting frequencies
Pictogram	A chart that uses pictures to represent data
Attribute	A property of an object or person. Something you can say it has.

Data and information

Objects can be grouped by their attributes.

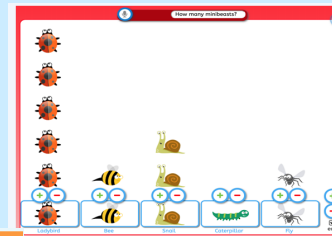


Data can be presented in different ways, including tally charts, pictograms and block diagrams:

Minibeast tally chart

Introduction
Use the tally chart to record how many minibeasts you can find.

Minibeast	Tally	Total
		5
		1
		2
		0
		1



Interesting Website

<https://www.j2e.com/jit5#pictogram>



Your child will learn to create pictograms in their computing sessions in school.

This site will support their data handling knowledge using technology to represent their data.



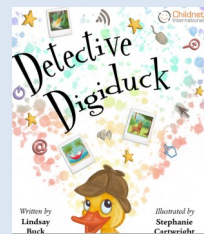
E-Safety

Remember! Not everything that you read online is true.

Look for clues to help you decide whether information might be true or not.

To check any information that you find, remember to talk to a trusted adult about it.

E-Safety Book:



Home Challenge!

Use the link <https://artsandculture.google.com/project/street-view> to find a and explore a museum you enjoy on Google Earth.

Can you plot its location on a map?

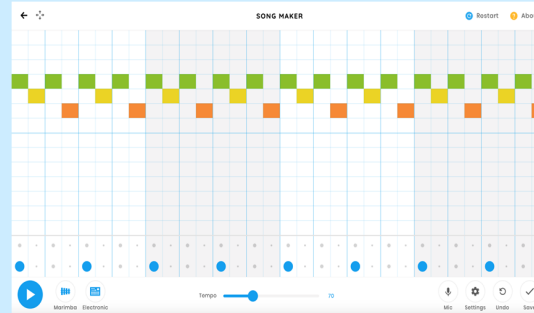
Year 2, Term 5– Knowledge Organiser—Computing—Journey in to

Subject Specific Vocabulary

word	definition
rhythm	A pattern of sounds of different lengths.
pulse	A steady beat like a ticking clock or your heartbeat
pitch	How high or low a sound is
tempo	The speed of the music

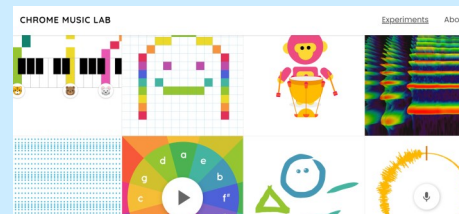
Digital Music

Computers can help us to create sounds and connect these sounds to images. They let us experiment with tempo, rhythm, instruments and melodies.



Pupils will use Chrome Music Lab to explore and create music in school.

Can you create your own music that represents something in space?



Interesting Website

<https://www.oxfordowl.co.uk/login?active-tab=students>

You can read many ebooks on the Oxford Owl website for free.

Username: summerhill5

Password: yeartwo



Home Challenge!

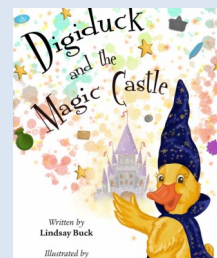
Using Google Earth to walk around the space station



E-Safety

- Remember that it's very easy to buy things online. Always check with a trusted adult.
- A strong password needs letters and numbers so that it is tricky for other people to guess.
- It's ok to share your passwords with your parents or trusted adults, but don't share passwords with your friends.

E-Safety Book:



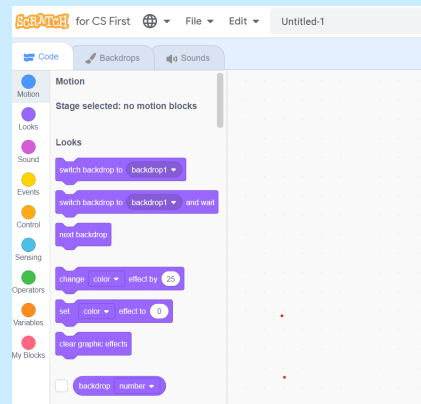
Year 2, Term 6— Knowledge Organiser —Computing—Being Human

Subject Specific Vocabulary

word	definition
sprite	A character within Scratch programs
backdrop	A background
costume	The clothes
code	A set of instructions for the computer

Programming (CS First)

CS first provides an opportunity for pupils to create codes for their Sprite. This means that they create code (or give instructions to the computer).



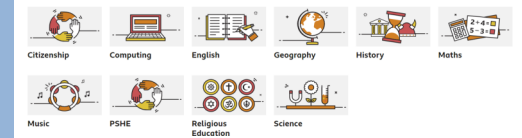
Interesting Website

<https://www.bbc.co.uk/bitesize/levels/z3g4d2p>

BBC Bitesize have a large collection of revision activities and games to do in all subjects for year 1 and year 2.

KS1 subjects

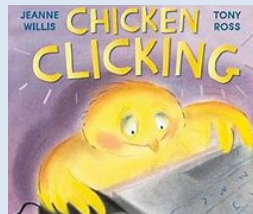
These subjects may contain both Guides for students and Classroom videos for use by teachers.



E-Safety—Review

- * Always tell an adult if you feel worried or unsure about something.
- * Only talk to people that you know and trust.
- * Never share your personal information.
- * Remember that not everything online is true.

E Safety book:



Children can add animation and sound to their presentation to keep it fun and interactive.

Home Challenge!

Can you complete the BBC bitesize activities for staying healthy as a human?

<https://www.bbc.co.uk/bitesize/topics/z6882hv/articles/z9j4g7h>