



Year 1







Subject Specific Vocabulary for Online Safety	
Vocab	Definition
E-Safety	Safe use of technology, the internet and other means of communication using electronic devices.
online	When a machine (computer / tablet) is switched on and connected to the internet.
search engine	Special websites that make it easy to find a website or page (i.e. Google)
website	A collection of web pages on the internet.
pop- up	Small windows that pop-up over the top of websites.
decision	Making a choice.
online stranger	People that we meet online who we don't know.
reliable	Something or someone that we can trust.



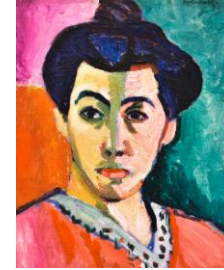
Sticky Knowledge about online safety
<input type="checkbox"/> Know what is meant by a safe and unsafe decision online
<input type="checkbox"/> Identify safe solutions for a range of online scenarios
<input type="checkbox"/> Create a key message / statement for one aspect of e-safety.
<input type="checkbox"/> Understand the dangers of 'meeting' someone online
<input type="checkbox"/> Understand some features of reliable / unreliable websites.

Useful Websites
Thinkuknow.co.uk (Jessie and Friends videos) 
Childnet.com (Smartie the Penguin Stories) 

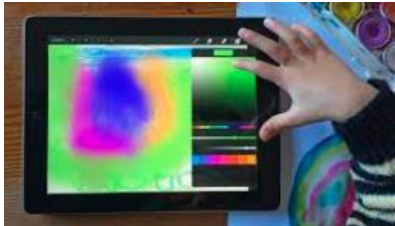
Key Skills to practice:
I should speak to an adult if I am worried about anything online.




Subject Specific Vocabulary for Digital Painting	
vocab	Definition
digital painting	Using digital tools on a computer or tablet to create a painting
digital tools	A digital paintbrush, pencil, pen etc used on a computer or tablet to create a painting.
paint program	A program used to create digital painting
shape tools	A digital tool used to draw shapes such as squares, triangles and rectangles.
line tools	A digital tool used to draw a straight or curved line.
fill tool	A digital tool used to fill a shape with colour.
image	A picture of something produced by a device.
portrait	A painting of a persons face and it's expression.



Sticky Knowledge about Digital Painting
<input type="checkbox"/> Describe what different freehand tools do and use the shape and line tools
<input type="checkbox"/> Make careful choices when painting a digital picture
<input type="checkbox"/> Explain why I chose the tools I used
<input type="checkbox"/> Use a computer on my own to paint a picture
<input type="checkbox"/> Compare painting a picture on a computer and on paper

Key Artists
<p>Piet Mondrian Henri Matisse George Seurat</p>
<p>Key Skills to practice:</p> <p>I can use a finger to draw and select tools using drawing app on Ipad.</p>


Computing – programming – Moving a Robot – Year 1









Summer Term



Subject Specific Vocabulary for Programming a Robot	
Vocab	Definition
floor robot	A programmable machine that can move along the floor.
direction	The course that something takes.
command	Telling someone or something to carry out an action.
instruction	Information about how something should be done.
plan	A decision about what you would like to do.
algorithm	A set of rules for a computer or robot.
program	A set of codes for a computer.
sequence	An order of instructions.



Sticky Knowledge about Programming a Robot
<input type="checkbox"/> Predict the outcome of a command on a device.
<input type="checkbox"/> Match a command to an outcome.
<input type="checkbox"/> Run a command on a device.
<input type="checkbox"/> Follow an instruction.
<input type="checkbox"/> Give directions.

Games to Play
Practice giving directions:

https://pbskids.org/peg/games/hungry-pirates
<p>Key Skills to practice: I can give someone a set of instructions for a familiar activity.</p>
<p>How to Make a Jam Sandwich</p> <p>What you need:</p> 
  
  



Subject Specific Vocabulary for the Animation	
Vocab	Definition
ScratchJr	A programming language for young children.
command	An order telling someone or something to carry out an action.
sprite	A computer graphic that can be moved on a computer screen.
compare	Say what is the same or what is different.
programming	Writing a computer program.
programming area	The space on ScratchJr where you place coding blocks.
algorithm	A set of rules for a computer or robot.
blocks	Coding instruction pieces that are joined together to make an algorithm.



Sticky Knowledge about Animation

- Use commands to move a sprite
- Use more than one block by joining them together
- Use a start block and run my program
- Delete and add sprites
- Create an algorithm for each sprite

Games to play

www.tynker.com



Key skills to practice:

Play barrier games to help with computational thinking i.e.

Lego Coding:



Build a Lego model, then give instructions to someone to make the same model.



Year 2



Internet Safety

Speak to:

If you are worried about anything.

S SPEAK
to somebody if you need help.

A ASK
an adult before going online.

F FRIENDS
are real people we know.

E ENJOY
Play, have fun and stay safe.

www.staffsafety-adviser.com





Subject Specific Vocabulary for Robot Algorithms	
Vocab	Definition
instruction	Information about how something should be done.
sequence	An order of instructions.
unambiguous	Clear, no room for errors.
prediction	Guess what might happen.
algorithm	A set of rules for a computer or robot.
program	A set of codes for a computer.
debug	Find and remove errors from a computer program.
command	Telling someone or something to carry out an action.



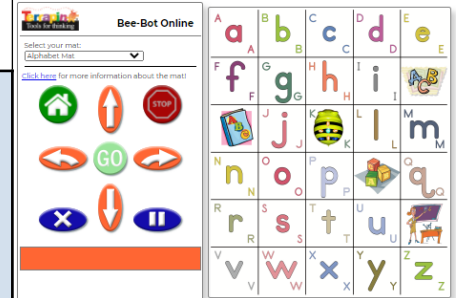
Sticky Knowledge about Robot Algorithms

- Give clear and unambiguous instructions and create a series of instructions
- Create an algorithm for a range of sequences
- Predict the outcome of a sequence
- Use an algorithm to create a program
- Test and debug each part of a program

Games to play

Play an online Beebot game to practice sequencing instructions.

<https://beebot.terrapiologo.com/>



Key Skills to practice:

You will need some playing cards, a teddy and some 'treats'. Create a maze using the playing cards, set up some 'treats' along the maze, give instructions to a partner to move the teddy around the maze collecting treats.





Subject Specific Vocabulary for the Programming	
Vocab	Definition
sequence	An order of instructions.
command	An order telling someone or something to carry out an action.
program	A set of codes for a computer.
run	To start a computer program
blocks	Coding instruction pieces that are joined together to make an algorithm
sprite	A computer graphic that can be moved on a computer screen
ScratchJr	A programming language for young children.
algorithm	A set of rules for a computer or robot.

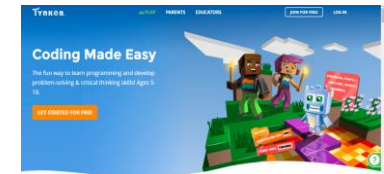


Sticky Knowledge about Programming

- Choose a background and characters based on my design
- Decide which blocks to use to meet the design and build the sequence of blocks I need
- Work out the actions of a sprite in an algorithm
- Predict the outcome of a sequence of commands
- Change the outcome of a sequence of commands.

Games to play

Practice coding at:
www.tynker.com



Key Skills to practice:

Play an if / then coding game with some friends. One person is the programmer, they give if/then instructions to the other players (the computers) i.e. If I touch my nose, then you touch your leg'. See how many different instructions the computers can remember!


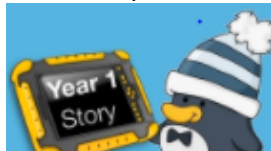




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