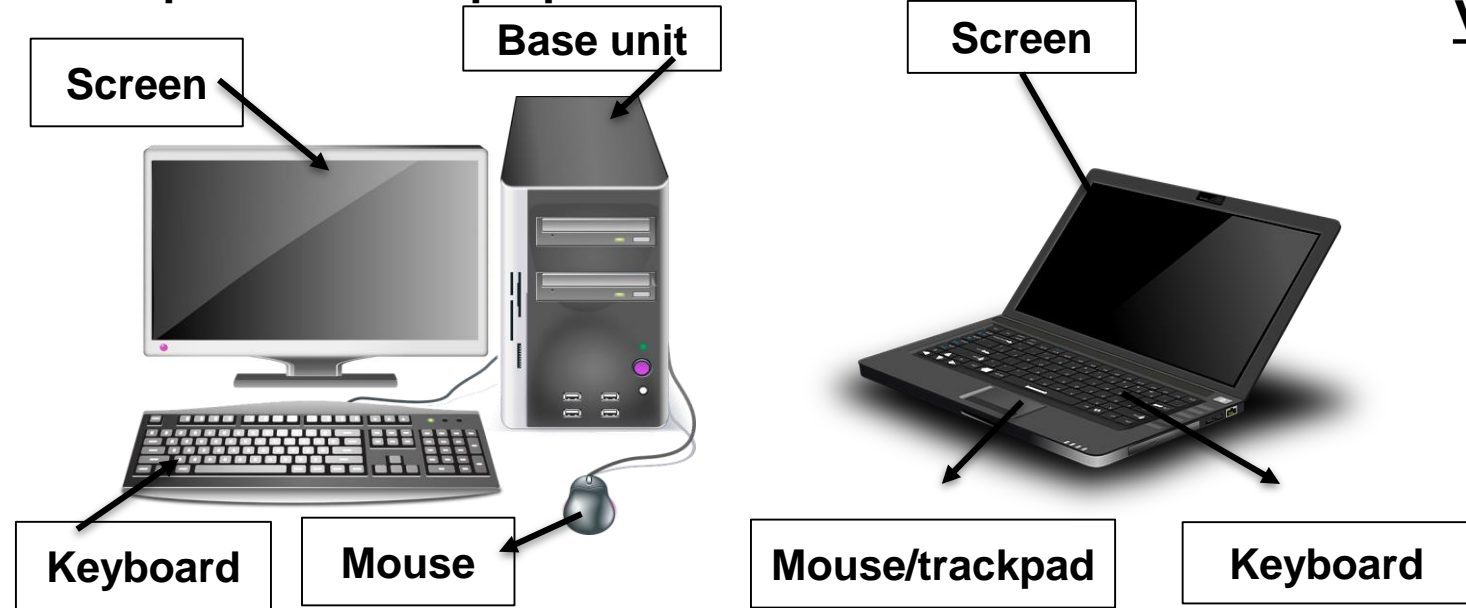


Knowledge Building Blocks:

- To explain that technology is something that can help us.
- To identify examples of technology.
- To explain how examples of technology help us.
- To recognise that a computer is an example of technology.
- To choose a piece of technology to do a job.
- To recognise that some technology can be used in different ways.
- To identify the main parts of a computer.
- To recognise that choices are made when using technology.
- To explain why rules are needed when using technology.
- To use a mouse in different ways.
- To use a keyboard to type
- To use the keyboard to edit text.
- To show how to use technology safely.

Computers and Laptops



Examples of Technology:



Key Vocabulary:

- technology
- desktop
- laptop
- logging on
- mouse
- function
- programme
- picture
- keyboard
- typing
- save
- icon
- open
- file
- edit
- text
- delete
- arrow keys
- cursor

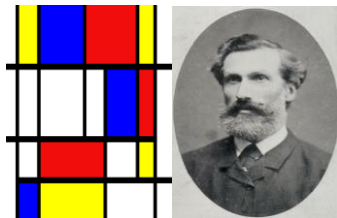
Computer safety

Knowledge Building Blocks:

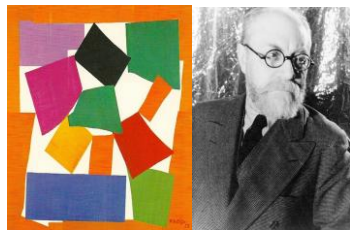
- To explain what different freehand tools do.
- To create a picture using freehand tools.
- To recognise computers can be used to create art.
- To use shape and line tools when precision is needed.
- To use a range of paint colours.
- To use the fill tool to colour an enclosed area.
- To use the undo button to correct a mistake.
- To recognise a tool can be adjusted to suit my need.
- To combine a range of tools to create a piece of artwork.
- To decide when it's appropriate to use each tool.
- To consider impact of choices made.
- To compare painting using a computer with painting using brushes.

Artists:

Piet Mondrian
1872-1944
Abstract Art



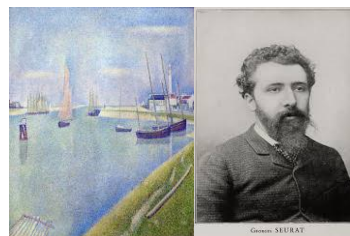
Henri Matisse
1869-1954
Collage



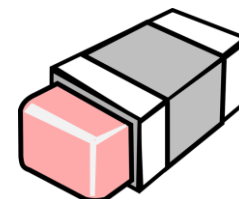
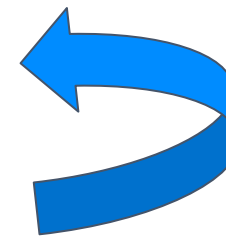
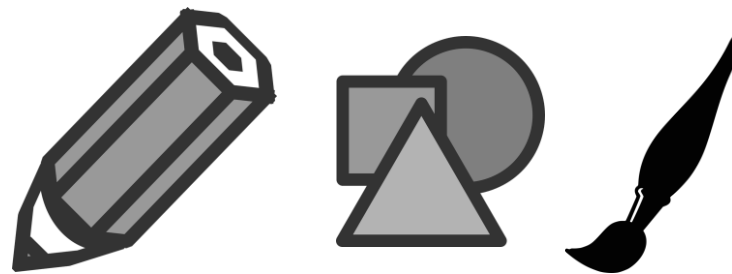
Wassily Kandinsky
1866-1944
Abstract Art



Georges Seurat
1859-1891
Pointillism



Tools:



Key Vocabulary:

freehand
digital
printing
tools
fill
undo
colour
brush
compare
shapes
lines
paint
artist



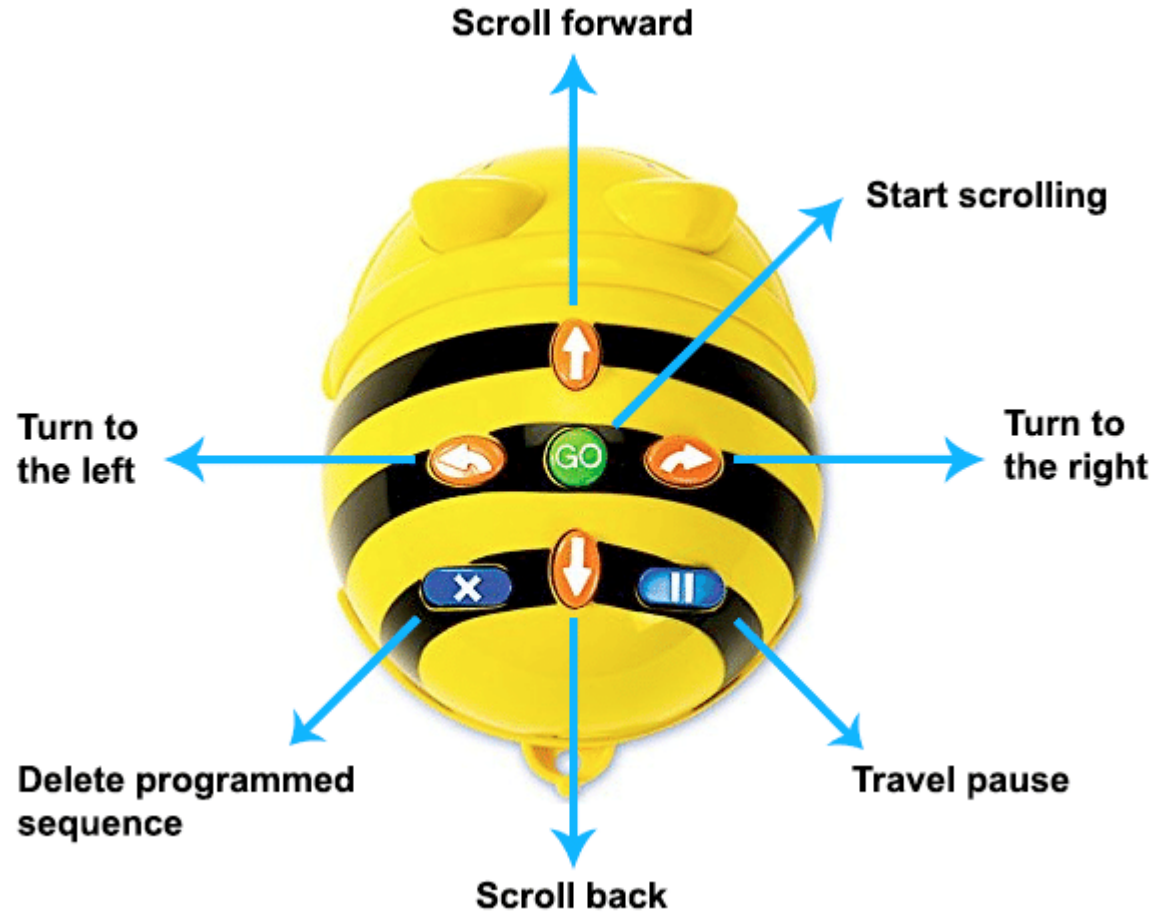
Programming A – Moving a Robot

**YEAR 1
Term 5**

Knowledge Building Blocks:

- To enact a given word.
- To recall words that can be enacted.
- To predict the outcome of a command on a device.
- To list which commands can be used on a given device.
- To explain what a given command does.
- To match a command to an outcome.
- To run a command on a floor robot.
- To choose a command for a given purpose.
- To understand that a programme is a set of commands that a computer can run.
- To choose a series of words that can be enacted as a programme.
- To recall that a series of instructions can be issued before they are enacted.
- To choose a series of commands that can be run as a programme.
- To build a sequence of commands in steps.
- To combine commands in a programme.
- To run a programme on a device.

Bee-Bot



Key Vocabulary:

- enact
- predict
- outcome
- command
- device
- floor robot
- programme
- instructions
- series
- sequence
- combine
- buttons
- forwards
- backwards
- position
- left turn
- right turn
- movement
- debug
- routes



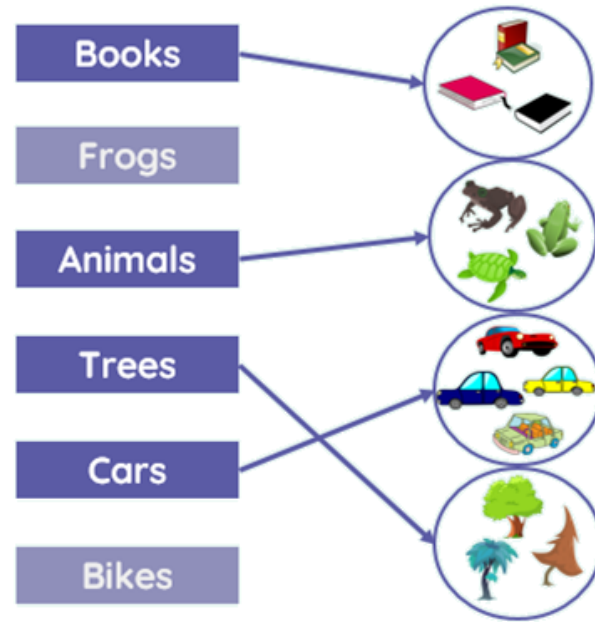
Data and Information – Grouping Data

YEAR 1
Term 4

Knowledge Building Blocks:

- To identify some attributes of an object.
- To collect simple data.
- To identify that objects can be counted.
- To show that collected data can be counted.
- To describe the properties of an object.
- To choose an attribute to group objects by.
- To group objects to answer questions.
- To explain that objects can be grouped by similarities (attribute).
- To recognise that information can be presented.
- To describe a group of objects based on commonality.
- To recognise that information can be presented in different ways.

Examples of Counting and Grouping:



Register	
Ben	✓
Bonnie	✗
Craig	✓
Harriet	✓
Ikram	✓
Rob	✓
Sam	✗



Key Vocabulary:

- attributes
- object
- data
- properties
- grouped
- similarities
- commonality
- labels
- input
- describe
- colour
- size
- classify
- more than
- less than
- same as
- most
- least
- shape



Creating Media – Digital Writing

YEAR 1
Term 3

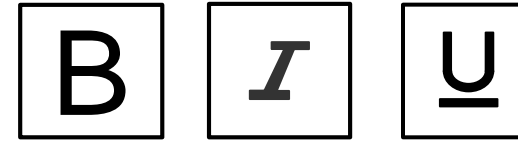
Knowledge Building Blocks:

- To recognise that a keyboard is used to enter text into a computer.
- To use letter, number and space keys to enter text into a computer.
- To recognise that the Shift Key changes the output of a key.
- To use punctuation and special characters.
- To recognise that text can be changed.
- To recognise that the appearance of text can be changed.
- To recognise that text can be edited.
- To use the backspace key to remove text.
- To position the text cursor in a chosen location.
- To use undo.
- To select text.
- to change appearance of text on a computer.
- To choose options to achieve a desired effect.
- To consider the impact of choices made.

Applications



Tools:



Key Vocabulary:

- keyboard
- text
- letter
- number
- space
- keys
- shift
- output
- edited
- backspace
- cursor
- undo
- Word processor
- tools
- toolbar
- Caps Lock
- fonts
- clicking
- dragging

Keyboard:

The buttons are called 'Keys'.



Caps Lock

Spacebar

Backspace

Enter



Programming B – Introduction to Animation

YEAR 1
Term 6

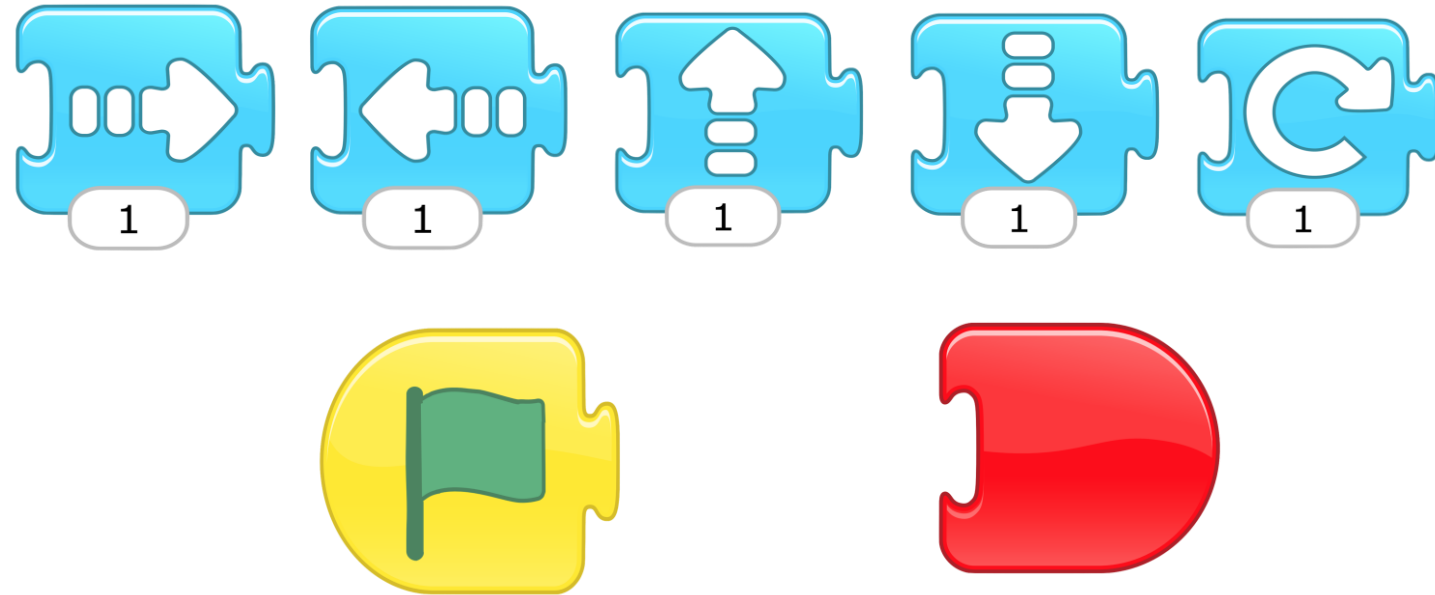
Knowledge Building Blocks:

- To enact a given word.
- To recall words that can be enacted.
- To predict the outcome of a command on a device.
- To list commands that can be used on a given device.
- To explain what a given command does.
- To match a command to an outcome.
- To recognise how to run a command (press a button).
- To choose a command for a given purpose.
- To understand that a programme is a set of commands a computer can run.
- To choose a series of words that can be enacted as a programme.
- To recall that a series of instructions can be issued before they are enacted.
- To choose a series of commands that can be run as a programme.
- To build a sequence of commands in steps.
- To combine commands in a programme.
- To run a programme on a device.

Application:



Blocks:



Key Vocabulary:

- enact
- predict
- outcome
- command
- device
- button
- programme
- series
- instructions
- sequence
- steps
- combine
- Scratch Jr.
- project
- sprite
- background
- blocks
- algorithms
- characters
- start
- value/number
- add/delete