Unit: 2.1 Coding

Learning intention: To create sequenced programs using a variety of events and timers.

purple mash

Tools

Free code chimp
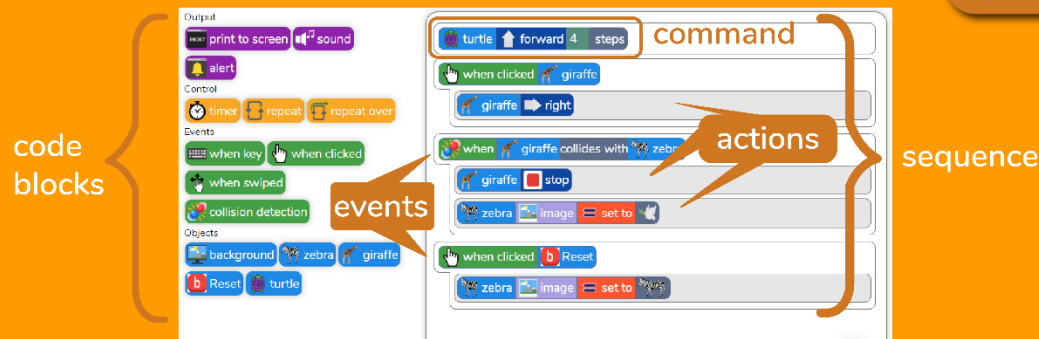
The coding process
- **2** design
- **2** algorithm
- **2** code
- **2** run and test
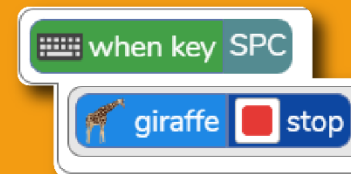- **2** debug

collision detection

collision detection event

when giraffe collides with zebra

giraffe stop

collision detection action

code view

Output
print to screen | sound
alert
Control
timer | repeat | repeat over
Events
when key | when clicked
when swiped
collision detection
Objects
background | zebra | giraffe
Reset | turtle

code blocks

turtle forward 4 steps — **command**

when clicked giraffe
giraffe right

when giraffe collides with zebra — **actions**
giraffe stop
zebra image set to

events

when clicked Reset
zebra image set to

sequence

timer

timer every 5 seconds

turtle turn 90 degrees
giraffe stop

interval

timer after 3 seconds

giraffe left
turtle backward 3 steps

design view

objects

button | character | turtle | food | animal
princess | hero | emoticon

Character Attributes | Clone

N name | giraffe
N tags | character X | Add Tag
image
movement | Stopped
allow off screen | No
scale | – 120 +
show/hide | show
Draggable | No

button object | Reset

animal object | turtle object

attributes

when key event

when key SPC

giraffe stop

when swiped event

when swiped background right
dog right

when swiped background left
dog left

2 simple

Purple Mash search

filter

purple mash | 2Dos | Work | Rewards | Sharing | Q Search

How do these connect to safety?
2 logging off
2 sharing funny images
2 sharing passwords
2 sharing videos of people
2 trusted adults
2 digital footprint
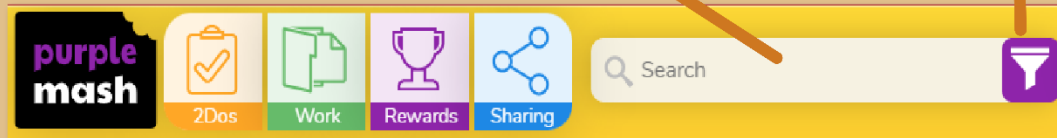
## Sharing in Purple Mash
- main menu
- save
- share
- displayboard

Safe searching
Who can you speak to?

private information

PASSWORD No.
ID ADRESS
NAME

Tools → 2Email

Read Email
From: Baby Bear
Subject: Barnaby Bear
Message: Hello, Barnaby Bear is travelling again. Please draw a picture of him and email it to me.
Reply | Delete | Report to teacher | Close

Read Email
From: Ada Lovelace
To: Baby Bear
RE: Barnaby Bear
Hello, Barnaby Bear is travelling again. Please draw a picture of him and email it to me.
Send | Attach File | Paint Picture | Cancel

Personal information are details about a person like name, eye colour, favourite food.

Private information is personal information that should not be shared without thinking carefully about who you are sharing with.

2simple
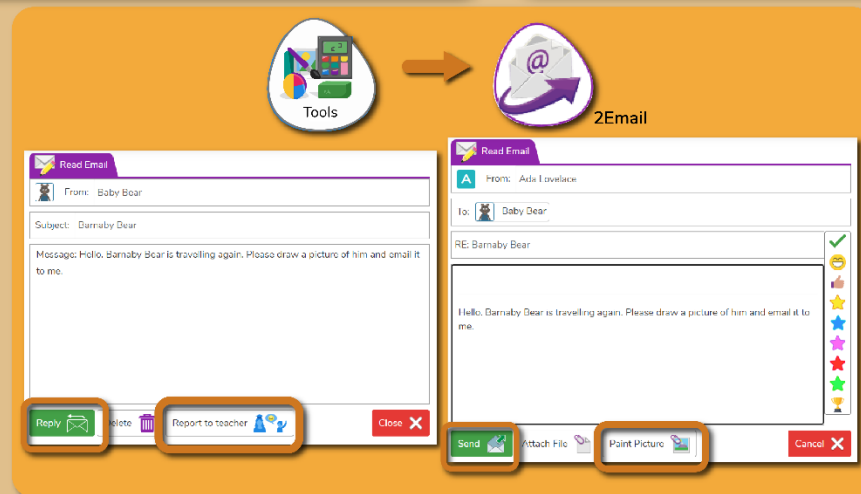
Unit: 2.3 Spreadsheets

Learning intention: To use the tools of a spreadsheet to work with data and represent data graphically.

purple mash

Tools

9 × 3 =

Data

A collection of information, used to help answer questions.

Copy & Paste

2 select the cells
2 use **Ctrl** + **X** to cut
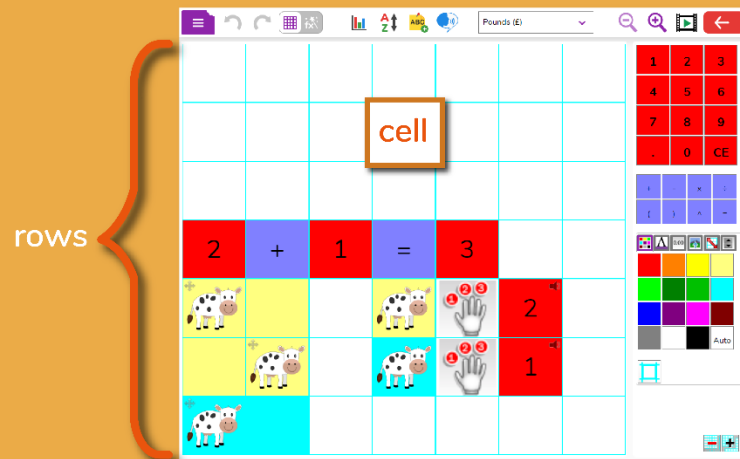2 click the new cell
2 use **Ctrl** + **V** to paste

table

Name	Transport
Ava	car
Bee	bus
Candy	walk
Dean	walk

block graph

		Indigo
Hans		Elle
Gill	Frank	Dean
Ava	Bee	Candy
🚗	🚌	👡

spreadsheet

cell

rows

columns

tools

2 + 1 = 3

controls

Controls:

totals

Copy Cell:
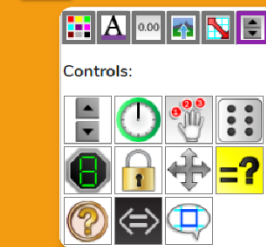
Totals:
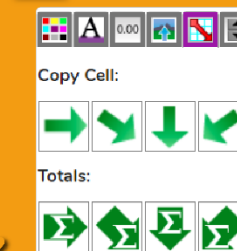
move

lock

count

speak

equal
=?

2 simple

Unit: 2.4 Questioning

Learning intention: To consider the questions that can be answered by organising data.

purple mash

Data

A collection of information, used to help answer questions.

branching database (binary tree)

Shapes

pictogram

Favourite Foods

database

search

database record

fields

Questioning

2 Can you work out what the questions are?

2 Where could these shapes go in the database?

2 simple

Unit: 2.5 Effective Searching

Learning intention: To understand what the Internet is and what happens when it is searched.

purple mash

The Internet

A global network of connected devices

The World Wide Web

The **webpages** and **websites** that you see when browsing the Internet

Browsers

Programs that help us access the World Wide Web

Search algorithms

- How a search engine finds what you are looking for.
- Help you find things that you might be most interested in.
- Use your digital footprint.
- Add to your digital footprint.
- Might not give you a balanced view.
- Could share or sell your search data.

web address (URL)

← → ⌂ 🔒 https://www.purplemash.com

2 simple

Unit: 2.6 Creating Pictures

Learning intention: To experience techniques to create a variety of art styles using electronic tools.
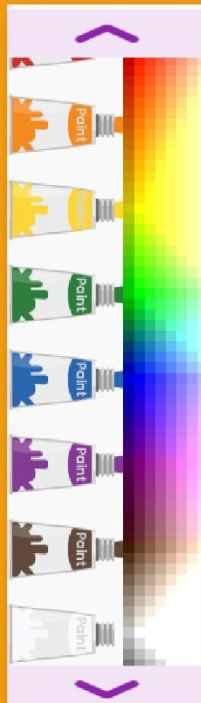
purple mash

Tools

palette tools

colours

eraser

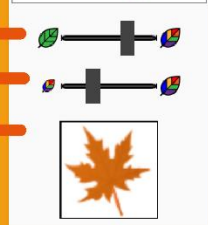### dilute colour

paint fill

stroke width

eCollage

- stamp design
- colour depth
- stamp size
- preview

paint effects

Spinner	Slice	Pattern	Abc	Belt	Wet paint
Ink	Lines	Pointillism	Poly-mosaic	Splash	Swirly
Impressionism	Acrylic	Poster paint	eCollage		

outline guides

- Face
- Body
- 3D Box 1
- 3D Box 2
- None
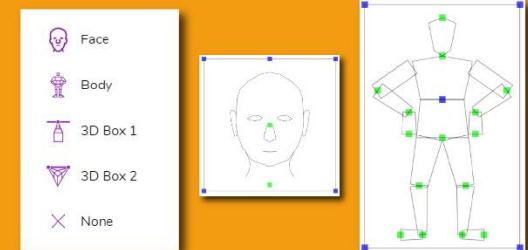
paint styles

Impressionism
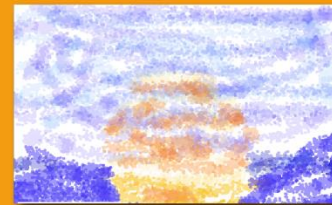
Pointillism

Modernism
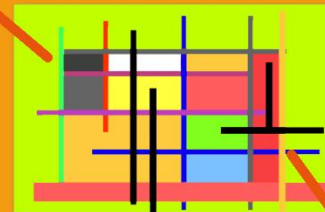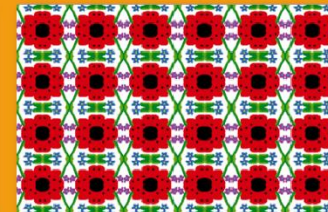
vertical

parallel   horizontal

Art Nouveau
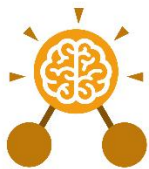
rotational symmetry

2 simple

Unit: 2.7 Making Music

Learning intention: To explore musical terms and composition using information technology.

purple mash

Tools →

adding sounds

| Acoustic guitar | Bells and chimes | Drums | Electric Guitar | Scales | SFX | Short Clips | Violin | My Sounds |

+

more sounds

add sound from another tool

Choose a sound

Search | Uploaded Sounds | Upload | Record

2Simple Classic

listen

Composition tool

12 ♪ ⌄ — **bars (length of tune)**

⬛ — **loop tune**

tempo - beats per minute

🚶 ●————————— 🏃 120 bpm

12♪ ⌄ ▶ Play 🚶 ●——— 🏃 120 bpm

musical composition area

volume controls

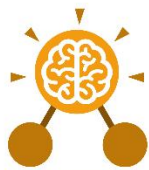| Acoustic guitar | Bells and chimes | Drums | Electric Guitar | Scales | SFX | Short Clips | Violin | My Sounds |

sound types

sounds

Record

record →

Done | Cancel

2 simple

Unit: 2.8 Presenting Ideas

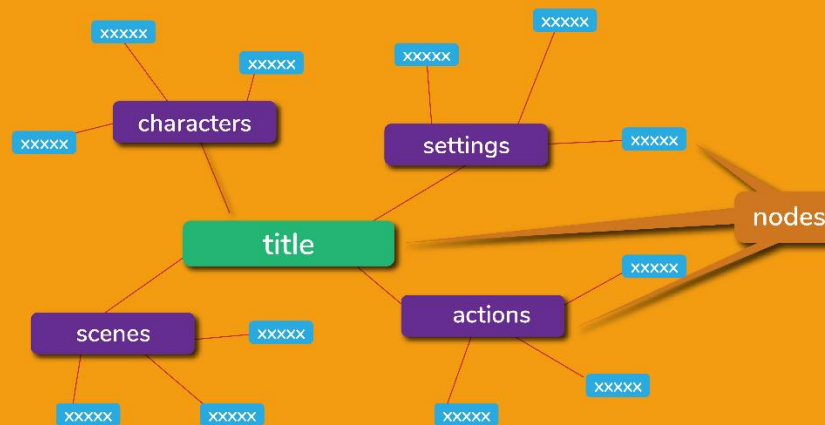Learning intention: To explore how stories can be presented in different ways.

eBook

Ned and the Three Bears
By Jonny Zucker
Illustration by Brett Gowlett

She tried their porridge. Daddy bear's was too salty, Mummy bear's was too sweet but Baby bear's was just right, she ate it all up!

3

mind map

- xxxxx
- xxxxx
- xxxxx
- characters
- xxxxx
- settings
- xxxxx
- nodes
- title
- xxxxx
- scenes
- xxxxx
- actions
- xxxxx
- xxxxx
- xxxxx
- xxxxx

quiz

A. Sheep ✓
B. Cow
C. Pig

multiple-choice (words)

multiple-choice (pictures)

The Three Bears Quiz

Q What is an animal?
A ----------

text

Q What animal?
A ----------

image text

labelling

linking

missing words

sequencing

grouping

non-fiction fact file

font and style

clipart

add photo

page settings

ClipArt
Edit

United Kingdom Fact File

Continent
Population
Currency
Languages

Country	Flag	Map Outline	Capital City

Page Settings