

Unit: 5.1 Coding



Learning intention: To design and create efficient programs using sequence, selection, repetition and variables.





Simulating a physical system



observe the

decomposition

2 break down a task into components

abstraction

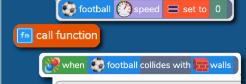
removing unnecessary details

create the algorithm



code, test, debug





fn call 🎎 whentheballhitsthewalls

Functions

create function whentheballhitsthewalls

= set to 8

football $\longleftrightarrow \times$ \equiv set to 3

reate function

football

Simplifying for efficiency



when clicked 🎁 apple

apple hide

when clicked 🏄 strawberr

🁛 strawberry 🍋 hide

simplified code





Simplified code runs faster and uses less processing memory, it is said to be more efficient.

Variables

repetition



- 2 The value can be changed in the code.
- Values are only stored while the program is running.
- Values should be initialised when the variable is created to prevent errors.

What value for myString4 would make sense?











object attributes											
	button	123	1.0 input	A text	character	food	animal	car	shape	turtle	hotspot
N name	\odot	\bigcirc	\odot	\odot	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\odot	\bigcirc
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allow off screen					\bigcirc	\odot	\odot	\bigcirc			
1/2 rotation style							\bigcirc	\odot			
+ movement type					\bigcirc	\odot	\bigcirc	\bigcirc			
△ angle								\bigcirc	\bigcirc	\odot	
o speed					\bigcirc	\odot	\bigcirc	\bigcirc	\bigcirc		
scale					\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\odot	
show/hide				\odot	\bigcirc	\odot	\odot	\bigcirc		\odot	\odot
🚜 draggable					\bigcirc	\odot	\odot	\odot		\bigcirc	
a text	\odot										
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colour text/background/border	\odot	\bigcirc	\odot	\odot					\bigcirc		\bigcirc
‡ ↔ width & height											\bigcirc
123 value		\odot	\odot								
6 sides									\bigcirc		





Unit: 5.2 Online Safety



Learning intention: To learn about online threats, sources of support and responsibilities.

Support

- Use the helping hand model to think of five adults who you trust to help you if you have a worry.
- Also think of friends who could help you to get support.
- To add more details use the leaflet by scanning the QR code.



Responsibilities

Outer Circle

can help. For example, Childline and

- Behave respectfully to other people.
- Think about your safety.
- Think about the safety of others.
- Think! Could something you post cause harm to anyone?
- Report inappropriate content.
- Trust 'uncomfortable' feelings.





Things to consider 2 Don't use one password for everything 6+ characters UPPER and lower case Combine letters, numbers and special characters Password *****

Secure Passwords

Quotes & Citations

"Lorem ipsum dolor sit amet, consectetuer adipiscing elit, sed diam nonummy" [

"nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis"

Bibliography & References

[1] Publication title, Author Name, Publisher, Date

Surnames and Initials, Date, Title, Publication, Edition

Author name, Date, Web Address

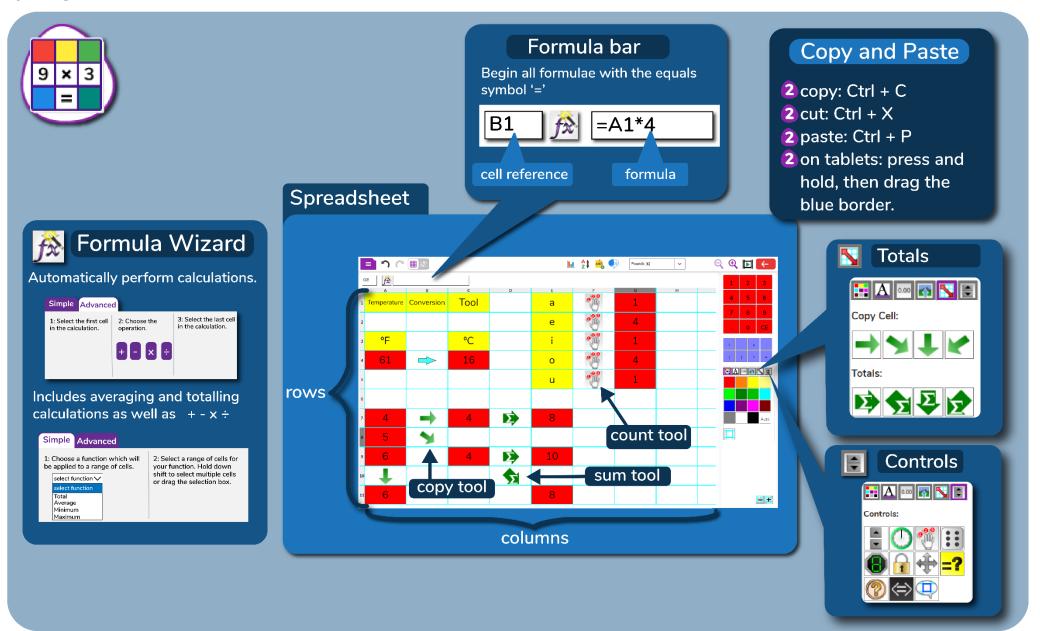




Unit: 5.3 Spreadsheets



Learning intention: To use formulae and advanced features of a spreadsheet to analyse data.



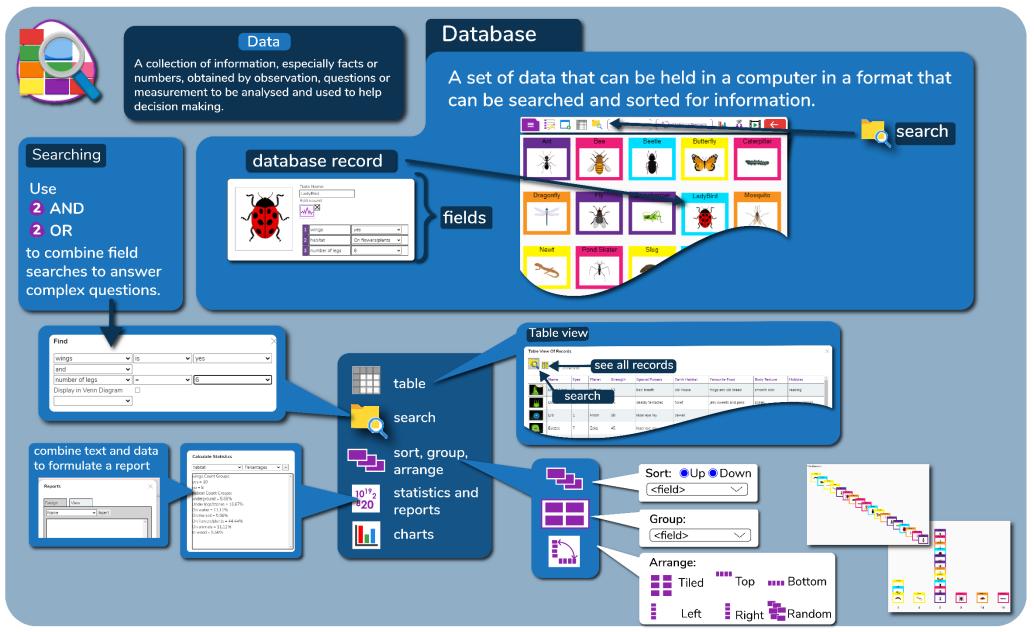




Unit: 5.4 Databases







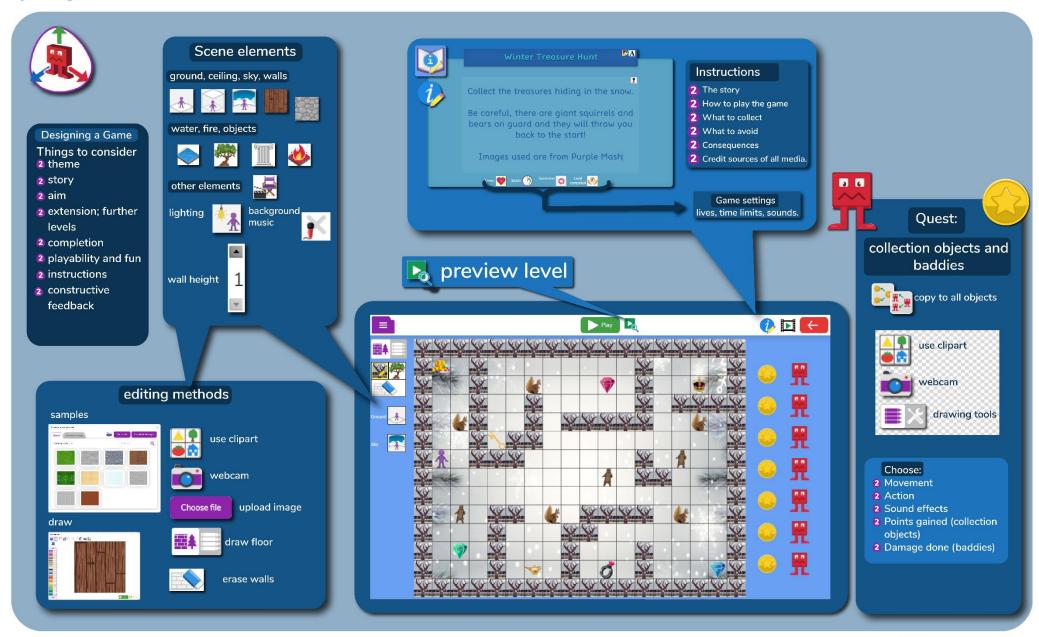




Unit: 5.5 Game Creator

Learning intention: To design and create a 3D game.





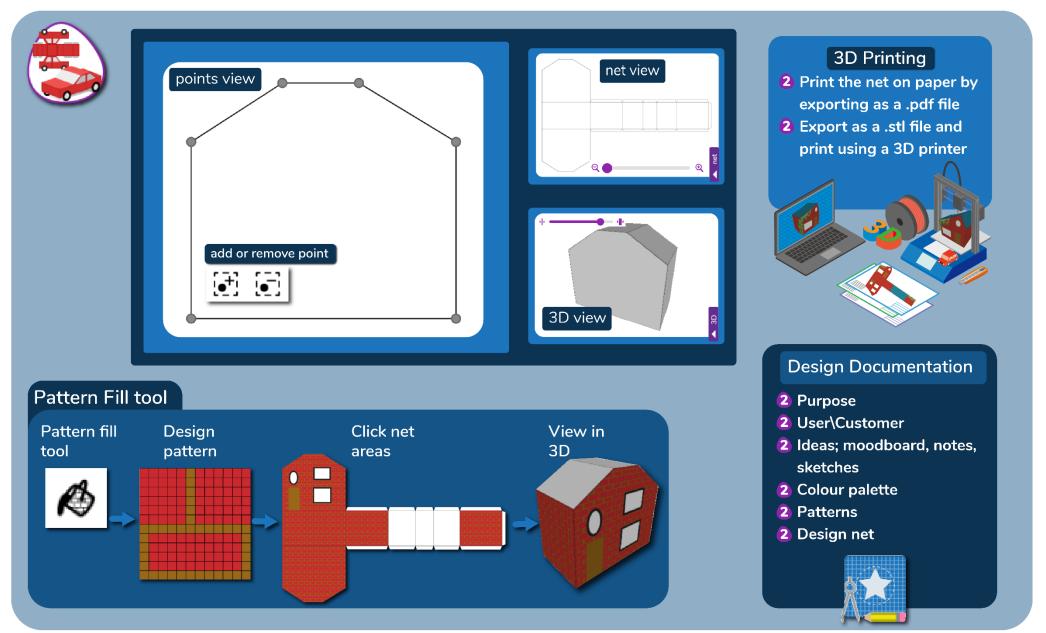




Unit: 5.6 3D Modelling



Learning intention: To design for a purpose in 3D using a computer aided design tool.



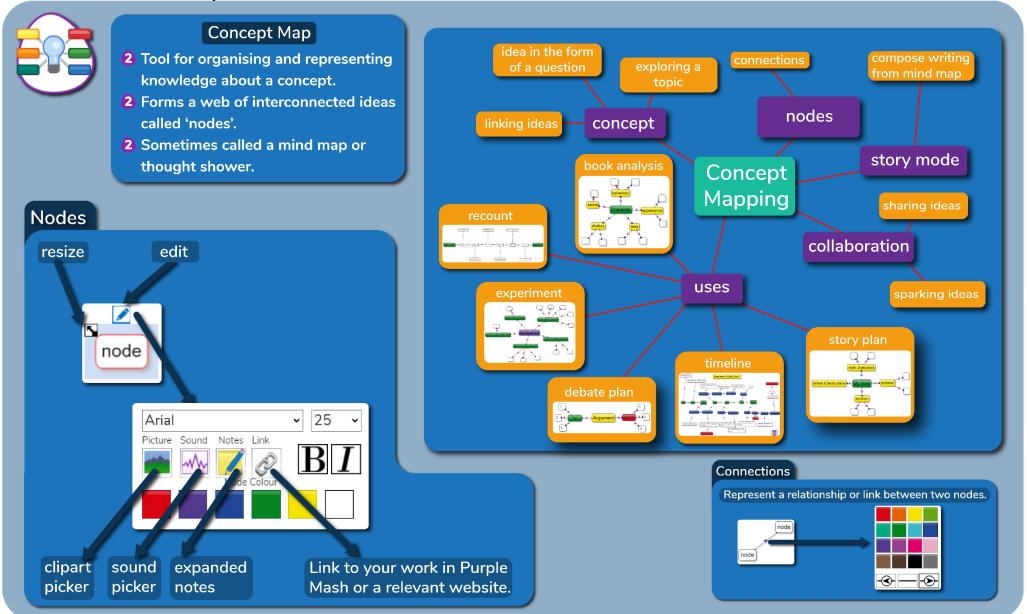




Unit: 5.7 Concept Maps



Learning intention: To use mind mapping to represent concepts and develop ideas collaboratively.







Unit: 5.8 Word Processing



Learning intention: To use the features of a word processor to enhance writing and presentation of digital artefacts.

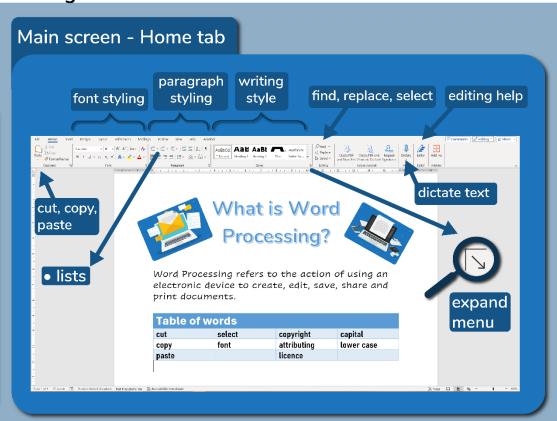


2 Touchscreen; use long press then select then cut, copy, paste.

Capital letters

- all upper case.

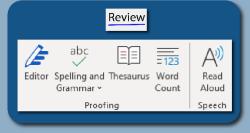
 upper case while
- pressed.
 tablet; double-tap

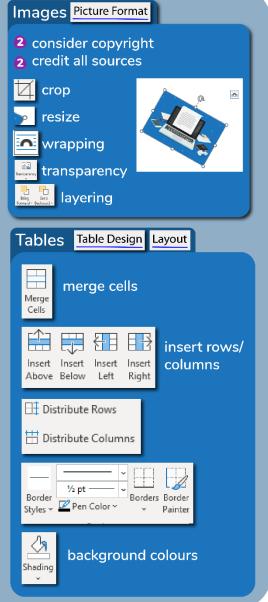


Selecting Text

- 2 Double-clicking a word: select whole word.
- Click left-hand margin: selects the line.
- 2 Mouse down and drag: selects text dragged over.
- 2 Click start of selection, use shift + arrow to selects precisely.







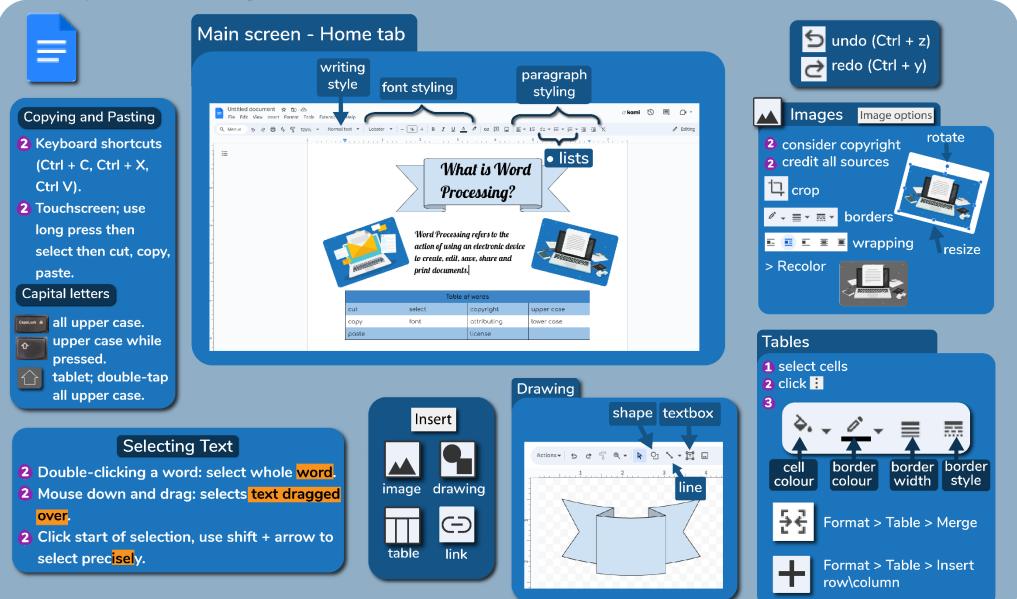




Unit: 5.8 Word Processing



Learning intention: To use the features of a word processor to enhance writing and presentation of digital artefacts.







Unit: 5.9 Using External Devices



Learning intention: To create programs which use the tools and functions of external devices to control the program.

