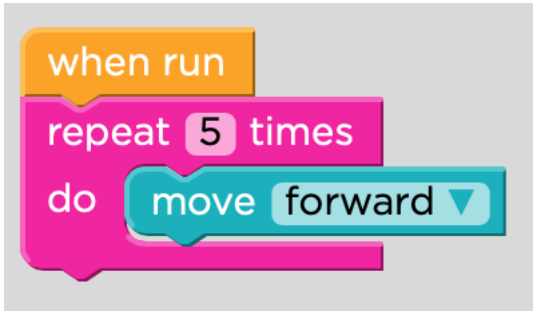
Computing | Knowledge organiser

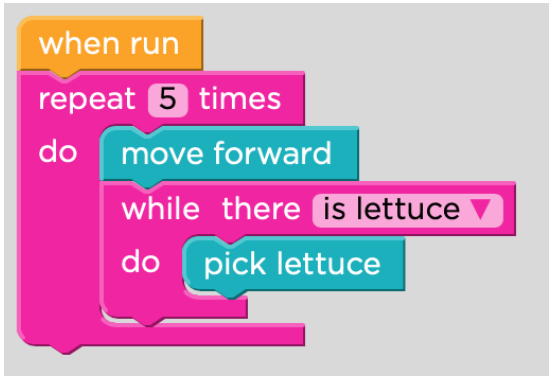
LKS2 | Spring 2

Code.Org

Key Question: How can I design, write and debug programs to accomplish specific goals?

Vocabulary	Definition
Goal	An aim or purpose.
Logical	To think carefully about something.
De-bug	Finding and fixing problems in an algorithm or program.
Repetition	To do something again.
Predict	To make a prediction and estimate.
Program	An algorithm that has been coded into something that can be run by a machine.
Algorithm	A list of steps to finish a task.
Sequence	Putting commands in the correct order so computers can read the commands.
Instructions	Directions and orders for how something is done.





Lesson 1 – How can I keep my information private and secure?

I need a good password that includes 8 characters, numbers and symbols and it is impossible to guess.

I can tell an adult or block someone if I feel unsafe.

Lesson 2 – How can an algorithm be debugged?

An algorithm can have problems that need to be fixed.

Debugging is when you fix your error in the algorithm.

Lesson 3 – How can an algortym be sequenced correctly?

Commands are what the computer reads and follows the movements.

Errors can be fixed by debugging.

Lesson 4 – How can I fix existing errors in code?

Errors can occur in code. They need to be fixed by running the algorithm and debugging it.

Debugging takes more than 2 attempts.

Lesson 5 – Can I make an algorithm?

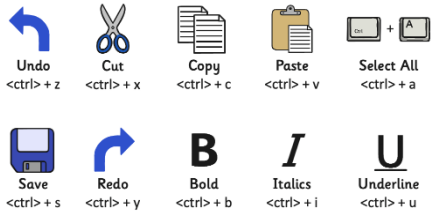
A computer can only follow written instructions.

An algorithm has to be in the right order.

Lesson 6 – Why are loops useful when programming?

Loops avoid repetition of the same instruction.

An algorithm can be simplified with loops.

Actions can be repeated.

Substantive concepts	Vocabulary		
Microsoft Word	Keyboard – Something that you type on to get different letters, numbers and symbols.		Word processing – Word processing involves the use of computers, software, and printers to get data into printed form.
E-Safety	E-safety – Knowing ways to safe online.	Cyber bullying – Bullying that takes place through electronic devices online.	Social media – Websites and applications that allow users to create and share content.
Art & Design	Animation – A way of making a movie from many still images.		Frames – Individual pictures in a sequence of images.
Computer Science	Algorithm – A process or set of rules to be followed.	Debug – To find and fix any mistakes or errors.	Program – A precise series of instructions written in a computer language.
Presentation	Image – A picture of something.	Resize – To make the file size or image smaller.	Layout – How the images and texts looks like on the page.
PowerPoint	Screenshot – To take a picture of your screen or part of your screen.	Shortcuts – Using the keys efficiently on the keyboard to perform tasks.