Computing: We are bug fixers Y3 T2

Learning link

You fixed sequences of instructions to get a Blue-Bot to a particular destination in year 1 'We are treasure hunters'. You also programmed a sprite on-screen in Scratch in 'We are astronauts' in year 2. You programmed in Scratch in 'We are programmers' at the beginning of year 3.

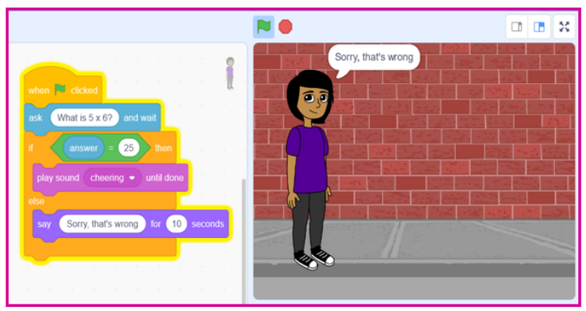
Key learning

Motion	Motion blocks control sprite placement, direction, movement and rotation.
Looks	Looks blocks control how the sprite looks and the background appearance. They also allow text to be displayed on screen.
Sound	Sound blocks control the playing and volume of audio and music files that have been selected from the library or uploaded.
Events	Events blocks decide when and how **events** are triggered in the program.
Control	Control blocks are used to control parts of the program, for example pausing or repeating events.

Knowledge check: Can you debug this error?

When the green flag is clicked, the question 'What is 5 × 6?' appears. I answer correctly with 30, but a 'Sorry, that's wrong' message appears on screen. Which of the following explains the bug?

A – The green flag block is in the wrong place.
B – The answer to 5 × 6 is wrong in the code.
C – The code blocks are in the wrong order.
D – The wrong sprite has been used.



Vocabulary

algorithm	A sequence of precise instructions or steps to achieve a goal.
abstraction	A process that helps simplify things by identifying what is important and what detail can be hidden or ignored.
bug	An error or a mistake in a program or algorithm, which stops it running in the correct way.
debug	To spot and correct mistakes (bugs) in a computer program or algorithm.
logical reasoning	A problem-solving skill that gives a reason for something that others have to accept as correct.

Keeping safe

S - Safe: Never share your name, address, or passwords with people you don't know.

M - Meeting: Never meet up with someone you met online.

A - Accepting: Be careful with what you click. Don't open messages or pictures from people you don't know.

R - Reliable: Not everything on the internet is true. People can lie about who they are, so stick to websites you can trust.

T - Tell: If something online makes you feel worried or unhappy, tell a trusted adult like a teacher or a parent right away.