Knowledge organiser – Y3 Programming

My Key Learning

Scratch is a coding program in which you can develop interactive games and animations.

algorithm

code blocks

sprite

There are four different ways to add a sprite.

What do I already know?

- A loop is an instruction repeated multiple times
- An algorithm is a sequence of instructions or set of rules that are followed to complete the task
- Decomposition means breaking a problem down into manageable chunks and that it is important in computing.

choose a sprite | paint your own sprite

generate a random (surprise) sprite | upload a sprite

Scratch code blocks colour key:

Motion | Sound | Control | Operators | My Blocks
Looks | Events | Sensing | Variables

Key Vocabulary	Definition
Sprite	An image or character that moves or reacts to commands.
Upload	Transfer data
animation	Bringing concepts to life through 2D and 3D moving pictures or photographs.
code block	Similar to a puzzle, they slot together to create an algorithm.
decompose	To break something down into smaller chunks.
repetition	The recurrence of an action or event.
loop	A repeated sequence of instructions.
Algorithm	Steps or instructions to solve a problem or complete a task.

Loops mean that you do not have to write out sections of code repeatedly, they repeat an action for you.

Eg:

Step, Step, Step   would be   Stepx3