Aston on Trent Primary School
Computing Knowledge Organiser

Curriculum overview

We will be breaking down and tinkering with an existing text-based code to see how it affects a program. We will be remixing and creating loops to make code more efficient. We will begin to learn how to use variables and be including a conditional statement.

Key vocabulary

Condition	A test or rule that is either **true** or **false**, used to make decisions in a program.
If statement	A programming command that runs certain code **if a condition is true.**
Variable	A named storage location in a program that holds data which can change while the program is running.
Debug	The process of finding and fixing errors (bugs) in a program.
Decomposition	Breaking a large problem into smaller, more manageable parts to make it easier to solve.

Our topic is...

Programming: Further coding with Scratch

Sticky knowledge

- Breaking down a problem into smaller parts makes it easier to solve the problem.
- Conditional statements tell the computer what to do next based on a user's input.
- It is important to identify where the mistake is in the programming as part of the debugging process.
- Loops are used to save time when writing code by reducing repetition.
- Errors in a program could result from sequencing errors, coding errors or missing code.



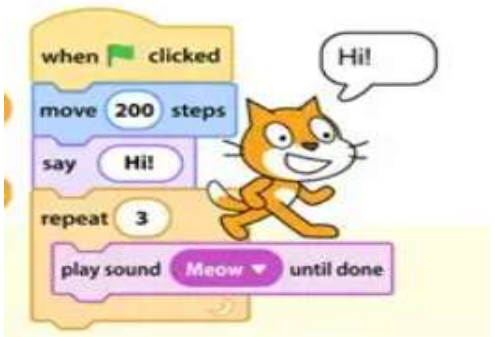
This program starts when the green flag is clicked. It asks for the player's name and says, "Hi!" followed by their answer.

It then asks, "What is 3X2?" It checks the answer using an **if statement**. The **condition** 'if answer =6' decides which message to show.

The 'answer' block stores what the player types, such as their name or maths answer.

Our Multiplication game blocks:

- **Storing information**: use variables like 'score, name and multiplier' to track what the player does.
- **Making choices**: use 'if' and 'if, then, else' to control what happens based on the user's 'answer.'
- **Using sensors**: use blocks like 'answer, key pressed and touching sprite' to react to input.



TRY THIS FIRST.

Links

If statements- Bing Videos

Scratch for beginners- Bing Videos