

Kit's Computing Coding Cards

Learning objective: To understand key programming terminology and concepts as required by the Grade 4 Computing curriculum.

Read the front of the card to test your knowledge of programming terms. Use Kit the fox's favorite definitions to check your answers on the back.

What is an Algorithm?

An algorithm is a precise set of step-by-step instructions or rules followed to solve a problem or complete a task.

What is a Variable?

A variable is a storage location in a computer program that holds a value (like a number or a word) that can change while the program is running.

What is a Loop?

A loop is a programming structure that allows a section of code to be repeated a certain number of times or until a condition is met.

What is Debugging?

Debugging is the process of finding and fixing errors (bugs) in a computer program so that it runs correctly.

What is meant by Sequence?

Sequence is the order in which instructions are executed in a program; each step happens one after another in a specific order.

What is an Input?

An input is any data or signal sent into a computer program, such as clicking a mouse, pressing a key, or using a sensor.

What is an Output?

An output is the information or action that a computer program produces after processing data, such as a message on a screen or a sound.

What is Selection?

Selection is a programming construct where the computer makes a choice based on a condition, often using 'if' or 'else' statements.

What is a Condition?

A condition is a logical test used in a program that results in either 'true' or 'false', determining which path the code will follow.

What is Syntax in programming?

Syntax is the set of rules that defines the correct combinations of symbols and words required to write a valid computer program.

How might you use a variable to store the price of an item in a digital store?

You could create a variable called 'item_price' and set it to a value like £5.50.

Why is it important for an algorithm to be in the correct sequence?

If the steps in an algorithm are in the wrong order, the program will not complete the task correctly or may produce an unexpected result.