ACET Junior Academies

Computing – KS1 and KS2 Vocabulary

Computing Concepts:



Algorithm	Debug	Decomposition
An algorithm is a sequence of instructions, or set of rules, that we can follow to solve a problem or achieve a task. Examples of algorithms in everyday life include recipes	Debugging is the process of finding an error in an algorithm (commonly known as a 'bug') and removing the error.	Decomposition is the process of breaking problems down into smaller sub problems to make a problem easier to solve. It involves breaking down a complex problem or
furniture instructions and even songs such as the Hokey Cokey that instruct us how to dance a particular dance!		system into smaller parts that are more manageable and easier to understand.
They can take the form of written instructions, a flowchart		
or even a series of diagrams.		
Input	Logical Reasoning	Output
An input is the data a computer receives and can take a	Logical reasoning the process of thinking through a problem	An output is the data or information generated by the
variety of forms, from commands you enter from the	or the steps of an algorithm using rules to explain the	computer, which is transferred to the user via a screen,
keyboard, to data from another computer or device. A	outcome. It is about being able to explain why something is	speakers, a printer etc. Common output formats are printed
device that feeds data into a computer, such as a keyboard	the way it is. It is also a way to work out why something	paper, sound, video and onscreen documents. They let the
or mouse, is called an input device. Other input devices	isn't quite as it should be.	computer communicate with the user.
include scanners, cameras, microphones and joysticks		
<u>Program</u>	Repetition	Selection
A program is a stored algorithm written in a specific	Repetition is a concept in programming when parts, or even	Selection is a concept in programming when parts, or even
language (programming language) to achieve a specific task.	the whole, of an algorithm are repeated either a fixed	the whole, of an algorithm is activated only when a certain
It tells a computer what to do.	number of times or forever.	condition occurs. An example in real life could be: When it rains, then I'll get my umbrella.
Sequence	Variables	Network
Sequence is a concept in programming whereby steps within an algorithm are placed in order and the order is	Variables are programming tools whereby computers can store information which can then change as the program	A network is two or more computers (or other electronic devices) that are connected together, usually by cables or
important, such as when writing a recipe: We need to	runs. Variables could be used to store the score in a game	Wi-Fi.
create a cake mix before the cake goes in the oven.	(which then changes as the game plays out), the number of	
	cars in a car park or the cost of items on a till. They work in	
	a similar way to algebra, where a letter in your code can	
	stand for a number.	