An **algorithm** is a precise sequence of instructions for successfully **Algorithm** carrying out a task. It will be written in everyday language but the steps might be capable of translation into a programming language. There might be a number of workable algorithms for a task but not all will be as efficient as the others.

AND / OR AND means 'as well as' and is inclusive. For instance, "I like cola AND milk (too)"

**OR** suggests either one thing or another but not both or all. They are called logical operators. (See operator)

Bug A **bug** is an error in a program that stops it from working in the way it should.

Conditional

A conditional is when something happens only on condition something else happens first.

Data **Data** are a collection of numbers and facts before they are processed to become information.

**Debugging** is the process of going through a program's code to locate and fix a

problem or mistake.

**Decomposing** 

See also: If...Then...Else

**Decomposing** is when you break a problem down into sections in order to be able to solve it more easily.

**Embed (Nest)** 

If something is embedded or nested

in a program it means that one piece of programming is contained within another.



If...Then...Else **If...Then...Else** is a computer's way of evaluating something and saying that if it has a particular attribute it will do one thing, otherwise it'll do something else.

Information

**Information** is what data becomes after

Basic

Programming, Vocabulary

they are organised. It might be reported in words or a chart of some sort. (See data)

**Input** can be either the device Input vou use to interact with a computer or an instruction in a program to key in words or numbers using one of those devices.

Language

A programming language is the name given to one of the many ways in which a computer can be given instructions in a program. Examples include C++, JavaScript, Logo, PHP, Python and Ruby.

If someone is using **logic** they are Logic explaining something by following a set of rules, even if they don't always realise that. Using the word 'because' can show reasoning. Guessing is not using logic.

Loop/Repeat

To loop or repeat is the process of

performing the same task again and again usually, but not always, for a set number of times.

**Operator** 

An operator tells the computer

what to do with inputs values and variables. (See inputs values and variables.)

Output

**Output** can be either the device a computer uses to give you information or the actual information itself. Output can come in many forms such as words, images movement and sound.

**Parallelism** In some computer languages it is possible to make the

computer perform more than one task at the same time. This is called **parallelism**.

**Print** can mean either print some **Print** output (words, numbers or images)

on a screen or on paper through a printer. Nowadays it is even possible to print in 3D!

**Print Inline** (Code Crunch)

Code Crunch has a special instruction

to **Print Inline**. This puts different pieces of text on the same line.

**Procedure** 

A **procedure** is a subset of a program that does a particular thing. It can be called up by the main program at any time

A **program** is a sequence of instructions (or **Program** algorithm) written in a language or code that a computer can understand and put into action. A computer will do exactly what it is told so a program must be accurate.

#Rule#

Explore the super computer.

Click on the words to find out what they mean.

Sequence

In programming a sequence

means the ordered steps in a program.

**Simulation** 

A simulation is an accurate representation of a real life activity.

We use simulations when something is either too dangerous or too expensive to do for real.

to save having to type it out again and again.

**Value** 

A value the number or word we give to a variable. (See variable) Variable

A variable is a label to which a value can be assigned. In most programming languages a variable is a letter but in Code Crunch they are EducationCity characters. As the name suggests variables can vary!

