DECOMPOSITION

Breaking a problem or system down into its parts

EVALUATION

Making judgements based on different factors, such as design criteria and user needs

ABSTRACTION

Identifying what is important and leaving out detail we do not need

ALGORITHMS

A precise sequence of instructions, or set of rules, for performing a task

LOGIC

Establish and check facts, and make predictions

CONCEPTS

PATTERNS

By spotting patterns we can make predictions, create rules and solve other problems

COMPUTATIONAL THINKING

Solving problems effectively, with or without a computer

CREATING

Planning, making and evaluating things

APPROACHES

PERSEVERING

...

Never giving up, being determined, resilient and tenacious

COLLABORATING

Working together with others to ensure the best result

DEBUGGING

Finding out what is wrong in an algorithm or program and fixing it

TINKERING

Trying things out through experimentation

Algorithm expressed as code = program

PROGRAMMING

Designing and writing instructions for a computer in a language it understands (code)

INPUTS

Data sent to a computer system from devices e.g. a keyboard or sensor

VARIABLES

A way in which computer programs can store, retrieve or change simple data, such as score or username

SELECTION

When a computer executes instructions if a particular condition is met or not

REPETITION

Repeating the execution of certain instructions [creating loops]

SEQUENCING

Arranging instructions for algorithms and programs in a particular order

PROGRAM

A stored set of instructions, in a language a computer can understand (code), that does some form of computation

OUTPUTS

Data sent form a computer system to the outside world e.g displayed on a computer screen

