**Sequences**

- Define a sequence as instructions performed in order, with each executed in turn.
- Predict the outcome of a simple sequence.
- Recognize that computers follow the control flow of input/process/output.
- Modify a sequence.
- Design a sequence that includes variables (write an algorithm).
- Make a sequence that includes a variable.

**Variables**

- Define a variable as a name that refers to data being held by the computer.
- Predict the outcome of a simple sequence that includes variables.
- Trace variables within a sequence.
- Define a variable as an expression that will be evaluated as either true or false.
- Identify where selection can be used in a program.
- Implement iteration in a program (count-controlled and condition-controlled).
- Implement a list.
- Decompose a larger problem into smaller subproblems.

**Selection and operators**

- Define a condition as an expression that will be evaluated as either true or false.
- Identify where condition-controlled iteration can be used in a program.
- Modify a program to include selection.
- Create conditions that use comparison operators (>,<,=).
- Create conditions that use logic operators (and/or/not).

**Iteration**

- Define iteration as a group of instructions that are repeatedly executed.
- Evaluate which type of iteration is required in a program.
- Identify where count-controlled iteration can be used in a program.
- Implement iteration in a program (count-controlled and condition-controlled).

**Subroutines**

- Define a subroutine as a group of instructions that will run when called by the main program or other subroutines.
- Define a subroutine as a group of instructions that will be stored in a library and called by other programs.
- Implement iteration in a program (count-controlled and condition-controlled).
- Implement a list.
- Decompose a larger problem into smaller subproblems.

**Problem-solving skills (decomposition, confidence)**

- Apply decomposition and confidence to solve a problem.

**Awareness of misconceptions**

- Ability to debug.

**Resources**

- Create expressions that use arithmetic operators (+ - / *)

- Resources are updated regularly — the latest version is available at: ncce.io/tcc

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