



With Teacher Support I can.....

- Break a simple task into smaller tasks (decomposition).
- Create and/or follow and debug **simple instructions in non computerised** contexts or simple tasks (algorithmic thinking).
- Identify (*decompose*) and **fix up** simple errors (bugs) in a sequence (algorithm).
- Create and/or follow and debug **simple instructions in computerised contexts** (algorithmic thinking).
- Think about who will follow my instructions (end users).

Years 0-3

With Teacher Support I can.....

- Create and/or follow **simple instructions in non computerised** and **computerised** contexts (algorithmic thinking).
- Identify, decompose and **fix up/debug** errors in a sequence of instructions.
- Understand that loops can be used to repeat a **sequence of commands** (algorithm).
- Understand and create simple digital programs involving **inputs** and **outputs** in a sequence (algorithm).
- Use a range of letters and symbols to represent instructions or code (arrows, R=right).
- Identify who will follow the instructions (end users).

Years 4-6

Independently I can

- Decompose a range of problems into step-by-step instructions to create algorithms for computer programs.
- Debug my code accurately and efficiently.
- Create a program based on an algorithm for a real world problem.
- Explain choices I make and predict what the process will do.
- Explain that a program has inputs and outputs and give examples.
- Understand that there can be more than one solution to a problem and be able to evaluate which are better or worse than each other.
- With support understand binary digits in a code.
- Identify patterns in an algorithm and understand the process of repeat loops.

Years 7-8

Independently I can

- I can create, change, store, retrieve, share and test digital content.
- I understand how digital devices affect individuals and society over time.
- I understand the role of components in simple input-process-output systems.
- I can recognise the human control role of devices.
- I can follow a defined process to design, develop, store, test and evaluate digital content.
- I can evaluate content to address a given context or issue and I can take into account the immediate social and ethical considerations.
- I can take into account the end user considerations when completing.
- I know it is my responsibility for the security and privacy of my storage device.

Years 9-10