|  |  |
| --- | --- |
| Learner stage | What I should know, understand, be able to explain or do |
| Exceptional Mastery (E) | I know that programming bridges the gap between algorithmic solutions and computers.I have practical experience of a high-level textual language, including using standard libraries when programming.I can use a range of operators and expressions e.g. Boolean, and applies them in the context of program control.I can select the appropriate data types. |
| Advancing mastery (A) | I know the difference between, and appropriately I can use if and if, then and else statements.I can use variable and relational operators within a loop to govern termination.I can design, write and debug modular programs using procedures.I know that a procedure can be used to hide the detail with subsolution (procedural abstraction). |
| Secure mastery (S) | I can create programs that implement algorithms to achieve given goals.I can declare and assign variablesI can use post-tested loops e.g. 'until', and a sequence of selection statements in programs, including use of if…then… else statement. |
| Developing mastery (D) | I can use arithmetic operators, if statements, and loops, within programs.I can use logical reasoning to predict the behaviour of programs.I can find and correct simple semantic errors i.e. debugging, in programs. |
| Emerging mastery (F) | I know that users can write their own programs.I can create a simple program.I can run, check and change programs.I know that programs run by following precise instructions. |