KS3 – Assessment Grid ICT

Year 7 – Programming in Scratch & MicroBit

Assessment grid			
Subject: **ICT**	Year: **7**	Topic/module/theme: **Programming in Scratch and MicroBit**	
KS3 target direction	4	6	8(9)
Advanced	Enrichment/extension – reaching, or part of, next pathway → Features of work may include: • Identify the correct blocks bridging from a flowchart to scratch	Enrichment/extension– reaching, or part of, next pathway → Features of work may include:	Enrichment/extension Features of work may include: • Use Microbit to create an interactive game that has 2 levels of difficulty • Be able to create the same solution in scratch with MicroBit Block Editor
Secure *Students must achieve competence in all statements before being judged 'Secure'*	Secure The student can: • Analyse and represent symbolically a sequence of events (flowchart) • Plan a linear sequence of instructions to make things happen • Understand that computers need precise instructions. • I can run a simple program • Show care and precision to avoid errors in scratch and/or MicroBit Block Editor • Be able to connect the MicroBit Device correctly	Secure The student can: • Explain the effects of creating/changing variables in a program • Use logical reasoning to predict outcomes. AND/OR/NOT operators • I know the difference between IF and IF Else statements • Use nested statements to produce more complicated programs • Independently write and debug a program	Secure The student can: • Identify difference between 'fixed' loops and 'Infinite' loops • Analyse complex problems and break it down into smaller problems and program them efficiently • Use pre-constructed blocks of code to build a working program • Be able to download the hex file and install it on the MicroBit Device
Developing	Mostly secure – one or more gaps For example:	Mostly secure – one or more gaps For example:	Mostly secure – one or more gaps For example:
Beginning	Significant gaps	Significant gaps	Significant gaps