DT Assessment Grid : Programming Pioneers : Year 5/6

PlanBee

Programming Pioneers

Group: Year: Term:

	DT												
Lesson 1	Can children communicate and develop their ideas by discussing, annotating diagrams and writing instructions?												
	Can children begin to explain how embedded systems monitor and control products?												
	Can some children explain how computer scientists have helped shape the world?												
Lesson 2	Can children develop prototypes of a computer-controlled electrical system?												
	Can children incorporate one or more different electrical components in their system?												
	Can children improve their prototype designs by 'debugging' their software and/or hardware?												
Lesson 3	Can children develop a design brief for a product?												
	Can children develop their ideas for their product through discussion and annotated sketches?												
	Can children incorporate electrical systems in their product design?												
Lesson 4	Can children suggest ways in which a given product idea might be developed and improved?												
	Can children debug a defective algorithm for a given product idea?												
	Can children develop and debug their own computer controlled product ideas?												
Lesson 5	Can children suggest ways in which models can better communicate ideas than written/verbal descriptions alone?												
	Can children make prototype models to communicate their ideas?												
	Can children control their prototypes using electronic components and computers?												
Lesson 6	Can children explain ways in which they debugged and improved their programs for controlling products?												
	Can children explain how they learned from others and improved their own designs?												
	Can children identify ways in which their DT and programming skills have developed, and ways in which they could further develop their learning?												