Name: Stimulus/Title: Example 20: Model a cooling cup of Tea		Date set: Date submitted:
•	Syllabus topics covered	
•	Background information	
•	Purpose of the task	
•	Previous exposure to relevant concepts/skills	
•	Previous exposure to relevant terminology	
•	Available technology	
•	Teacher expectations regarding technology	
A4 sli	Communication (4) —Brief aim. Easy to read, logical, detailed. Clear aim ghtly). Coherent work through transformations required estion at end to fulfil aim – complete.	

B Mathematical presentation (3)
B2—Tables displaying data and units and clear. Labels on axes not always clear but appropriate graphs throughout. Misuse of words "scatter graph", "constants". Variables clearly defined.
C Personal engagement (4)
C3—Application of area of mathematical interest to real-life situation. Conducts own experiment. Comparison of different approaches to produce models. Looks for different ways to explore problem.
D Reflection (3)
D3—Reflects on nature of problem. Reflects on degree of accuracy of results. Constantly comparing models. Reflects on possible reasons for discrepancies between model and real-life data and considers ways to analyse this.
E Use of mathematics (6)
E4—Good initial analysis of results. Understanding of transformations of graphs and exponentials/natural logarithms (commensurate with syllabus) clearly demonstrated. Correct calculations throughout. Lacks sophistication and rigour expected.