Commentary on the performance of Candidate C, Level 1, Functional Mathematics

Aspect		Mark		Comment
RC	Identify and obtain necessary information to tackle the problem	2	a c	After a number of false starts the candidate identifies the need for 10 bulbs but does not, at first, identify what power rating these bulbs should have. However, the correct wattages do appear under the heading of part c.
RF	Understand practical problems in familiar and unfamiliar contexts and situations	0	b	The candidate does not identify the appropriate wattage replacement bulbs.
AI	Examine patterns and relationships as values are changed.	0	c	Replacement bulbs have not been listed.
RT	Select mathematics in an organised way to find solutions to practical problems for different purposes	1	c	Some wattages have been identified from the list at the start of part c. There is a clear intention to total some of these.
RI	Make an initial model and decide how to apply methods in an organised way	2	c	In part b the candidate wrongly identified the energy saving wattage that would be required. This is, however, used in part c to find a difference - implying the method required to find the energy saved.
AT	Apply mathematics in an organised way to find solutions to practical problems for different purposes	1	c	Applies method without further mistakes, but the values used are clearly incorrect.
II	Interpret and communicate solutions to practical problems, giving explanations	1	c	A few headings are used to indicate where the values stated have come from.
IT	Draw simple conclusions.	0	c	A “correct” conclusion is drawn, with regard to the energy that could be saved but no mention is made of the target of saving 700W.
	Total	7		

In preparing the mark scheme we have found evidence within the structure of the expected answer to say that the aspects have been met. The marks have been allocated to these aspects.

It may be that the aspects will be met at other points in a different solution. If this is the case OCR will take steps to allocate these marks where evidence exists.