Commentary on the performance of Candidate A, Level 1, Functional Mathematics.

Aspect		Mark		Comment
RC	Identify and obtain necessary information to tackle the problem	2	a	The candidate has correctly identified the correct wattage bulbs for each purpose. (6 centre lights at 100W, 2 side lights at 100W and 2 bedside lights at 60W)
RF	Understand practical problems in familiar and unfamiliar contexts and situations	2	b	The candidate has identified the correct wattage bulbs to replace the conventional ones already listed. Although giving a RANGE of bulbs types, from the table, this issue is addressed in part c.
AI	Examine patterns and relationships as values are changed.	2	b c	The candidate initially "fudged" the choice of energy saving bulb. However, in part c they make it clear that the minimum wattage option makes the goal of saving over 700W possible.
RT	Select mathematics in an organised way to find solutions to practical problems for different purposes	2	a c	The candidate decides on the method for finding the total wattage required when the bulbs they have correctly identified as "fit for purpose" are used.
RI	Make an initial model and decide how to apply methods in an organised way	2	c	The candidate decides on a method to find the amount of energy saved between conventional and energy saving bulbs.
AT	Apply mathematics in an organised way to find solutions to practical problems for different purposes	2	c	The candidate applies the method correctly (finding the difference in total wattages for each type of bulb) and now overcomes the problem of the range of possible energy saving bulbs previously given.
II	Interpret and communicate solutions to practical problems, giving explanations	2	b c	Working is clearly explained throughout the task.
IT	Draw simple conclusions.	2	c	The conclusion is drawn that Emma can save more than 700W but only if she uses the minimum wattage replacement energy saving bulbs. The evidence is referred to in drawing this conclusion.
	Total	16		

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.