Question number			Answer	Notes	Marks
8	a b	i	(surface) area; Any one from: volume of water; timing period;	Ignore conditions of the room	1
	С	ii	any TWO from: MP1. (this variable) would affect heat loss; MP2. so wouldn't know which factor/variable mattered; MP3. otherwise not fair test /results would not be valid / results would not be reliable; ANY SUITABLE e.g. • care with hot water • container not near edge of table/bench	allow description of how the variable would affect heat loss allow gloves	1
	d	i	 container not near edge of table/bench do experiment while standing 31 40 28 25 ALL FOUR CORRECT = 2 -1 each mistake Minimum score = 0	• goggles	2
					1

ii	MP1. temperature (difference); MP2. (surface) area or time; MP3. relevant units on both;	X and Y unimportant	1 1
iii	Any TWO from: MP1. use water that is at the same starting temp; MP2. Pour in and wait until that temperature is reached before timing; MP3. method to ensure small time gap between pouring water and starting; MP4. put (same volumes into) containers in a water bath;	Accept sensible alternative workable method(s), allow two different methods e.g. do one at a time use other people to help	2

(Total for Question 8 = 12 marks)