Ph	ysics Assessment Task 1	Teacher	Name / ID Mr Coombes	☐ Mr Robson ☐ Mr Cantor
Ti	 Answers are to be written in the s The answer should take up no mo have marks deducted if the inform If you make a mistake cross it out spare paper attached. Please use the space allocated at to 3 marks towards the total mark of 	ore than the sp nation is not of t and add the the bottom of	pace provided. Exce concise. appropriate number	or lines of writing to the
1.	Superconductors have a many potent factor which limits there ability to be			
Re	ferences			
2.	Identify two factors which inhibit the	ability of me	etals to conduct an e	electric current. (1 mark)
 Re	ferences			
3.	One possible application of superconda) Outline the (1 mark)	ductivity is in	their use in electri	cal transmission wires.
 Re	ferences			

Physics Assessment Task I		Name / ID		
·	Teacher	☐ Mr Coombes	☐ Mr Robson	☐ Mr Canton
(b) Explain how the shortcoming r			increased know	ledge of the
properties of materials that are	used to make tr	ansistors. (3marks)		
			•••••	•••••
			••••••	••••••
References				
4. (a) The BCS theory describes the abelectrons are able to pair up. Using a d (4 marks)				
	•••••	•••••		
References				

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	Teacher	☐ Mr Coombes		
(b) Solid state devices have replaced them (3 marks)	mionic device	s for most applicat	ions Discuss thi	s statement.
			•••••	
	•••••	•••••	•••••	•••••••
References				
			•••••	
5. Assess the impact of the invention of tr		ociety. In your ans	wer equal attent	ion should be
paid to negative and positive impacts. (6	marks)			
	•••••			•••••
	••••••	•••••	•••••	•••••••
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References				

Physics Assessment Task 1		Name / ID		
	Teacher	☐ Mr Coombes	☐ Mr Robson ☐ Mr Canto	
Spare paper.				
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