## Practice Question Set For GCSE

Subject: Physics

Paper-1 Topic: Electricity (Low Demand)

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Name of the Student:\_ Max. Marks: 22 Marks Time: 22 Minutes Mark Schemes Q1. (a) any **six** from: (i) switch on read both ammeter and voltmeter allow read the meters adjust variable resistor to change the current take further readings draw graph (of) V against I allow take mean R = V/Iallow take the gradient of the graph 6 (ii) resistor would get hot if current left on 1 so its resistance would increase 1 (iii) 12 (V) 0.75 × 16 gains 1 mark 2 (iv)  $15(\Omega)$ 1 16 is nearer to that value than any other 1 if current is above 5 A / value of fuse (b) 1 fuse melts allow blows / breaks do not accept exploded 1 breaks circuit 1

[15]

(a)	dec	reased  correct order only		
			1	
	decr	reased	1	
	incre	eased	1	
<b>/</b> b.\	<b>(</b> ;)	Λ	1	
(b)	(i)	A reason only scores if A chosen	1	
		uses least / less energy (in 1 year)		
		a comparison is required		
		accept uses least power		
		accept uses least kWh	1	
	(ii)	greater the volume the greater the energy it uses (in 1 year)	1	
	(iii)	a very small number sampled		
		accept only tested 3		
		accept insufficient evidence / data		
		allow not all fridges have the same efficiency <b>or</b> a correct description implying different efficiencies		
		only tested each fridge once is insufficient		
		there are lots of different makes is insufficient		
			1	
				[7]