## Practice Question Set For GCSE

**Subject: Physics** 

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## Paper-2 Topic: Magnetism And Electromagnetism (High Demand Questions)

lame of the Student:  Max. Marks: 23 Marks  Time: 23 Minutes  Mark Schemes		
(a)	inertia	1
(b)	<b>→</b>	1
(c)	increase the current  allow use a stronger magnet	
	so that the (resultant) force increases	1
(d)	bring the (same end of the) iron bar close to each pole / end of the permanent mallow bring each end of the iron bar to the same pole of the magnet	agnet
	any repulsion shows the iron bar is a permanent magnet	
	or	
	if one end of the iron bar is attracted to both poles it is not a permanent magnet	1
(e)	the compass (needle always) points in the same direction allow the compass (needle always) points north	1
	because it aligns itself with the Earth's magnetic field  dependent on MP1	
		1 [8]
Q2.		
(a)	there is a magnetic field due to the (permanent) magnets	1
	and the current in the wire produces a magnetic field	1
(b)	use (Fleming's) left hand rule  allow place first two fingers and thumb of left hand at right angles to each other	

1

figures

any rounding must be correct for subsequent marks to be awarded.

max **2** marks if a pair of readings from the graph are used instead of gradient calculation

1

[8]