Question number	Answer	Notes	Marks
2 (a)	Place compass in field and observe the needle ;	e.g. "Place the compass next to the magnet and look where the needle points."	3
	Make marks to record (field); ALLOW use of >1 compass / pencil	e.g. "Place the compass next to the magnet and look where the needle points. The line is marked using a pencil and paper method (i.e. dots or arrows)"	
	Repeat process / join marks to make >1 line;	e.g. "Place the compass next to the magnet and look where the needle points. The line is marked using a pencil and paper method (dots or arrows). This is repeated for another line / in a different place" ALLOW use of iron filings for 1 mark	
(b)	A correct field line ;	ALLOW incomplete line IGNORE field lines inside the magnet	3
	Correct direction of field shown i.e. an arrow from N to S;	REJECT inconsistent / incorrect arrows	
	At least two correct complete lines, but not touching / crossing;		

Question number	Answer	Notes	Marks
7 (a)	momentum = mass x velocity OR 72 x 8;	Or equivalent rearrangement ACCEPT use of standard abbreviations i.e. p = mv	2
	Calculation 580 (kg m/s);	ALLOW 576 (kg m/s)	
(b)	Substitution 920 ÷ 0.17 ; Calculation 5400 (N) ;	REJECT Alternative incorrect unit for 1 mark ACCEPT 5410 / 5412 / 5411.7 5411.8 REJECT 5411	2
(c) (i)	Road Weather-related e.g. wet / dry / rainy / icy; Surface-related e.g. gravel / mud / freshly tarmaced / oily; Gradient e.g. uphill / downhill; Car Mechanical e.g. quality of tyres / brakes; Momentum-related e.g. speed / number of passengers / mass; Driver State of alertness e.g. tired / alcohol / drugs / mobile phone / other distractions; Reaction time;	ALLOW slippery if qualified	2