

Question number	Answer	Notes	Marks												
1 (a)	<table><thead><tr><th>Physical quantity</th><th>Unit</th></tr></thead><tbody><tr><td>velocity</td><td>metre per second squared (<math>\text{m/s}^2</math>)</td></tr><tr><td>force</td><td>watt (W)</td></tr><tr><td>power</td><td>newton (N)</td></tr><tr><td>moment</td><td>metre per second (<math>\text{m/s}</math>)</td></tr><tr><td>acceleration</td><td>newton metre (Nm)</td></tr></tbody></table>	Physical quantity	Unit	velocity	metre per second squared ( $\text{m/s}^2$ )	force	watt (W)	power	newton (N)	moment	metre per second ( $\text{m/s}$ )	acceleration	newton metre (Nm)	<p>ignore line drawn from force as already given</p> <p>3 marks if all correct 2 marks if 2 correct 1 mark for any 1 correct</p> <p>ignore line if more than one physical quantity or unit are linked to each other</p>	3
Physical quantity	Unit														
velocity	metre per second squared ( $\text{m/s}^2$ )														
force	watt (W)														
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moment	metre per second ( $\text{m/s}$ )														
acceleration	newton metre (Nm)														
(b) (i)	idea that vectors have a direction but scalars do not;	allow idea that only vectors have a direction	1												
(b) (ii)	any correct scalar;	e.g. speed, distance, length, mass, time, temperature, energy, power etc.	1												

Total for Question 1 = 5 marks