

Forces in equilibrium

Specification reference	Checklist questions	
3.4.1.1	Can you describe the nature of scalars and vectors, and give examples of each?	<input type="checkbox"/>
3.4.1.1	Can you add vectors by calculation and scale drawing?	<input type="checkbox"/>
3.4.1.1	Can you resolve vectors into two components at right angles to each other, including components of forces along and perpendicular to an inclined plane?	<input type="checkbox"/>
3.4.1.1	Can you solve problems using resolved forces or a closed triangle?	<input type="checkbox"/>
3.4.1.1	Can you describe the conditions for equilibrium for two or three coplanar forces acting at a point?	<input type="checkbox"/>
3.4.1.1	Can you define equilibrium in the context of an object at rest or moving with constant velocity?	<input type="checkbox"/>
3.4.1.2	Can you define the moment of a force about a point as force \times perpendicular distance from the point to the line of action of the force?	<input type="checkbox"/>
3.4.1.2	Can you define a couple as a pair of equal and opposite coplanar forces?	<input type="checkbox"/>
3.4.1.2	Can you define the moment of couple as force \times perpendicular distance between the lines of action of the forces?	<input type="checkbox"/>
3.4.1.2	Can you explain the principle of moments?	<input type="checkbox"/>
3.4.1.2	Can you describe and define centre of mass?	<input type="checkbox"/>
3.4.1.2	Can you explain that the position of the centre of mass of uniform regular solid is at its centre?	<input type="checkbox"/>