describe the moment of a force in terms of its turning effect and relate this to everyday examples

## Turning Effect of a Force

## Dr K M Hock

= Moment.



recall and apply the relationship moment of a force (or torque) = force × perpendicular distance from the pivot to new situations or to solve related problems

## Moment of a Force

Dr K M Hock

To measure/Calculate furning effect:



Moment due to force about pivot

$$= 2N \times 0.1m$$
  
= 0.2 Nm

Moment due to force about pivot

- = 100N x 1.2m
- = 120 Nm





apply the principle of moments to new situations or to solve related problems



show understanding that the weight of a body may be taken as acting at a single point known as its centre of gravity



describe qualitatively the effect of the position of the centre of gravity on the stability of objects



