

## QUESTION 2:

## NEWTON'S LAWS:

- Memorise the following terms and symbols. (Refer to page 29.)

	Concept	Associated formulae
1	Definite normal force	$F_N = mg$ , $F_N = F_Y$ , $F_N = F_H$ , $F_N = F_{N_{\text{object}}}$ , $F_{N_{\text{object}}} = F_Y$ , $F_{N_{\text{object}}} = F_H$
2	Definite frictional force	$F_f = \mu F_N$
3	Definite static friction	$F_{f_{\text{static}}} \leq \mu_s F_N$
4	Definite kinetic friction	$F_{f_{\text{kinetic}}} = \mu_k F_N$
5	<b>State Newton's first law of motion</b>	Newton's 1 <sup>st</sup> law
6	<b>State Newton's second law of motion</b>	Newton's 2 <sup>nd</sup> law
7	<b>State Newton's second law in terms of momentum</b>	$\text{Force} = \frac{\Delta p}{\Delta t}$
8	<b>State Newton's third law of motion</b>	Newton's 3 <sup>rd</sup> law
9	<b>State Newton's law of universal gravitation</b>	$F = \frac{G m_1 m_2}{r^2}$

- Practice and master how to draw a free-body or force diagram listing possible forces you might come across:
  - Gravitational force or weight ( $F_g$ ) or  $w$ , for any object having a mass
  - Normal force ( $F_N$ ), for all objects resting or moving on a surface
  - Fictional forces (Static friction  $F_s$  or Kinetic friction  $F_k$ )
  - Air friction ( $F_{\text{air}}$ ), the question will state when to consider air friction
  - Tension ( $F_T$ ), an object pulling another with a string/tape
  - Action = reaction forces, an object pushing another by physical contact, no string forces and  $F_N$
  - Applied force
- Remember the Action = reaction force:
  - The reaction force to the weight of an object is the Force that the object exerts on the Earth.
  - Always think of Newton's third law. The reaction force to the Force that object A exerts on object B is the Force that object B exerts on object A.

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**William P. Fisher Jr.,Paula J.  
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