

## QUESTION 2

### NEWTON'S LAWS

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

	Concept	Associated formulae)
1	Define Normal force	$F_{N12g}$ , $F_{N12g} - F_y$ , $F_{N12g} + F_y$ , $F_{N12g} \cos \theta$ , $F_{N12g} \sin \theta - F_y$ , $F_{N12g} \cos \theta + F_y$
2	Define Frictional force	$F = \mu F_N$
3	Define Static friction	$f_{s,max} = \mu_s F_N$
4	Define kinetic friction	$f_k = \mu_k F_N$
5	State Newton's first law of motion	$F_{net} = 0$
6	State Newton's second law of motion	$F_{net} = ma$
7	State Newton's second law in terms of momentum	$F_{net} = \frac{\Delta p}{\Delta t}$
8	State Newton's third law of motion	$F_{A \text{ on } B} = -F_{B \text{ on } A}$
9	State Newton's law of universal gravitation	$F = \frac{G m_1 m_2}{r^2}$

- 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**
  - Frictional force (Static friction  $f_s$  or Kinetic friction  $f_k$ )
  - Air friction ( $f_{air}$ ), the question will state when to consider air friction
  - Tension ( $T$ ), an object pulling another with a string/rope
  - Action – reaction forces, an object pushing another by physical contact, no string  
 $F_{A \text{ on } B}$  and  $F_{B \text{ on } A}$
  - 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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