

## QUESTION 2

### NEWTON'S LAWS

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

	Concept	Associated formula(e)
1	Define Normal force	$N=mg$ , $N=mg-F_y$ , $N=mg+F_y$ , $N=mg\cos\theta$ , $N=mg\cos\theta-F_y$ , $N=mg\cos\theta+F_y$
2	Define Frictional force	$f = \mu \cdot N$
3	Define Static friction	$f_{\text{static}} = \mu_s \cdot N$
4	Define kinetic friction	$f_k = \mu_k \cdot N$
5	State Newton's first law of motion	$F_{\text{net}}=0$
6	State Newton's second law of motion	$F_{\text{net}}=ma$
7	State Newton's second law in terms of momentum	$F_{\text{net}} = \frac{\Delta p}{\Delta t}$
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	$F = \frac{G \cdot m_1 \cdot m_2}{r^2}$

- 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 ( $N$ ), for all objects resting or moving on a **surface**
- Frictional force (Static friction  $f_s$  or Kinetic friction  $f_k$ )
- Air friction ( $f_{\text{air}}$ ), 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

# Smart Learner Physical Sciences P2 Nov 2008

**Puja Mehta**



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