

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_{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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Albert James Diaz



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web nov 17 2014 french photographer lucien clergue died in nîmes on november 15 aged 80 after a long illness born in arles in 1934 clergue was more than an image maker best known for his sultry nudes and

expositions du photographe lucien clergue - Dec 28 2021

web jun 1 2023 lucien clergue le méditerranéen 10 juin 18 septembre 2022 museu picasso barcelone picasso clergue 21 juin 20 octobre 2019 les rencontres d arles 1er juillet 22 septembre 50ème anniversaire clergue weston première expo premières oeuvres la croisière arles 2018 picasso mon ami château des baux de provence

[lucien clergue biography artworks exhibitions ocula artist](#) - Aug 04 2022

web lucien clergue was a french photographer most remembered for his images of female nudes and his friendships with pablo picasso and jean cocteau as the founder of the rencontres d arles one of the greatest photography festivals in the world clergue is also celebrated for elevating the status of photography in france

[lucien clergue wikipedia](#) - Jan 29 2022

web lucien clergue war ein französischer fotograf autor und filmemacher er war bekannt für seine objektfotografie und für weibliche akte und auch durch picasso der ihn als einer der ersten als künstler anerkannte während derlei fotos in frankreich damals als pornografie galten und somit illegal waren

lucien clergue wikipédia - Jul 03 2022

web lucien clergue né le 14 août 1934 à arles et mort le 15 novembre 2014 à nîmes 1 2 est un photographe français il est le premier photographe à être élu membre de l académie des beaux arts de l institut de france il en fut le président pour l

année 2013