

## 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

# Grade 1physics P2 Nov 2014

**J Spring**



## Grade 1physics P2 Nov 2014:

**Magnetic Fusion Energy** George Neilson, 2016-06-02 Magnetic Fusion Energy From Experiments to Power Plants is a timely exploration of the field giving readers an understanding of the experiments that brought us to the threshold of the ITER era as well as the physics and technology research needed to take us beyond ITER to commercial fusion power plants. With the start of ITER construction the world's magnetic fusion energy MFE enterprise has begun a new era. The ITER scientific and technical S T basis is the result of research on many fusion plasma physics experiments over a period of decades. Besides ITER the scope of fusion research must be broadened to create the S T basis for practical fusion power plants systems that will continuously convert the energy released from a burning plasma to usable electricity operating for years with only occasional interruptions for scheduled maintenance. Provides researchers in academia and industry with an authoritative overview of the significant fusion energy experiments. Considers the pathway towards future development of magnetic fusion energy power plants. Contains experts contributions from editors and others who are well known in the field.

*Official Gazette Philippines*, 2004      Deformation and Fracture of Solid-State Materials Sanichiro Yoshida, 2014-11-17  
This volume introduces a comprehensive theory of deformation and fracture to engineers and applied scientists. Here comprehensive means that the theory can describe all stages of deformation from elastic to plastic and plastic to fracturing stage on the same basis equations. The comprehensive approach is possible because the theory is based on a fundamental physical principle called the local symmetry or gauge invariance as opposed to phenomenology. Professor Yoshida explains the gist of local symmetry gauge invariance intuitively so that engineers and applied physicists can digest it easily rather than describing physical or mathematical details of the principle. The author also describes applications of the theory to practical engineering such as nondestructive testing in particular with the use of an optical interferometric technique called ESPI Electronic Speckle Pattern Interferometry. The book is not a manual of applications. Instead it provides information on how to apply physical concepts to engineering applications      *Geotitles* ,1993

## Reviewing **Grade 1physics P2 Nov 2014**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Grade 1physics P2 Nov 2014**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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