

**EXAMINATION DATA SHEET FOR THE PHYSICAL SCIENCES  
(PHYSICS)**

**TABLE 1 PHYSICAL CONSTANTS**

NAME	SYMBOL	VALUE
Acceleration due to gravity on Earth	g	9,8 m·s <sup>-2</sup>
Speed of light in a vacuum	c	3,0 × 10 <sup>8</sup> m·s <sup>-1</sup>
Universal gravitational constant	G	6,7 × 10 <sup>-11</sup> N·m <sup>2</sup> ·kg <sup>-2</sup>
Coulomb's constant	k	9,0 × 10 <sup>9</sup> N·m <sup>2</sup> ·C <sup>-2</sup>
Magnitude of charge on electron	e	1,6 × 10 <sup>-19</sup> C
Mass of an electron	m <sub>e</sub>	9,1 × 10 <sup>-31</sup> kg
Planck's constant	h	6,6 × 10 <sup>-34</sup> J·s
1 electron-volt	eV	1,6 × 10 <sup>-19</sup> J

**TABLE 2 PHYSICS FORMULAE****MOTION**

$v = u + at$ or $v_f = v_i + a\Delta t$	$s = \left(\frac{v+u}{2}\right)t$ or $\Delta x = \left(\frac{v_f+v_i}{2}\right)\Delta t$
$v^2 = u^2 + 2as$ or $v_f^2 = v_i^2 + 2a\Delta x$	$s = ut + \frac{1}{2}at^2$ or $\Delta x = v_i\Delta t + \frac{1}{2}a(\Delta t)^2$

**FORCE AND MOMENTUM**

$F_{net} = ma$	$F_{net} = \frac{\Delta p}{\Delta t}$ or $F_{net}\Delta t = m\Delta v$	$J = \Delta p = mv - mu$ or $J = \Delta p = mv_f - mv_i$
$p = mv$	$F_g = mg$	$F_{fs}^{max} = \mu_s F_N$ $F_{fk} = \mu_k F_N$

**WORK, ENERGY AND POWER**

$W = Fs$ or $W = F\Delta x$ or $W = F\Delta x \cos\theta$	$P = \frac{W}{t}$	$P = Fv$
$E_p = mgh$	$E_k = \frac{1}{2}mv^2$	$W_{net} = \Delta E_k$
		$\% \text{ efficiency} = \frac{\text{power}_{out}}{\text{power}_{in}} \times 100$

# Grade 12 Physics Study Guide

**SJ Ball**



## **Grade 12 Physics Study Guide:**

## Embracing the Melody of Expression: An Psychological Symphony within **Grade 12 Physics Study Guide**

In a global eaten by displays and the ceaseless chatter of quick connection, the melodic splendor and mental symphony developed by the written word frequently disappear into the backdrop, eclipsed by the constant noise and interruptions that permeate our lives. Nevertheless, set within the pages of **Grade 12 Physics Study Guide** a charming fictional prize filled with raw emotions, lies an immersive symphony waiting to be embraced. Crafted by an elegant composer of language, this charming masterpiece conducts visitors on an emotional trip, skillfully unraveling the concealed melodies and profound affect resonating within each cautiously constructed phrase. Within the depths of this moving evaluation, we can explore the book is key harmonies, analyze its enthralling writing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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