

Physics Equations Sheet

GCSE Combined Science: Trilogy (8464) and GCSE Combined Science: Synergy (8465)

FOR USE IN JUNE 2023 ONLY

HT = Higher Tier only equations

kinetic energy = $0.5 \times \text{mass} \times (\text{speed})^2$	$E_k = \frac{1}{2} m v^2$
elastic potential energy = $0.5 \times \text{spring constant} \times (\text{extension})^2$	$E_e = \frac{1}{2} k e^2$
gravitational potential energy = mass \times gravitational field strength \times height	$E_p = m g h$
change in thermal energy = mass \times specific heat capacity \times temperature change	$\Delta E = m c \Delta \theta$
power = $\frac{\text{energy transferred}}{\text{time}}$	$P = \frac{E}{t}$
power = $\frac{\text{work done}}{\text{time}}$	$P = \frac{W}{t}$
efficiency = $\frac{\text{useful output energy transfer}}{\text{total input energy transfer}}$	
efficiency = $\frac{\text{useful power output}}{\text{total power input}}$	
charge flow = current \times time	$Q = I t$
potential difference = current \times resistance	$V = I R$
power = potential difference \times current	$P = V I$
power = $(\text{current})^2 \times \text{resistance}$	$P = I^2 R$
energy transferred = power \times time	$E = P t$

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From The Vault of Schrodinger's Cat Natasha

Parkinson,2023-08-02 Schrodinger's Cat was a science blog set out to debunk the science misinformation that was and is rampant on social media as well as be a credible and trusted source to answer all of readers science questions such as What makes fireworks different colours How do birds find their way when migrating What is a GMO Is it possible to recreate Frankenstein's Monster What causes that Thanksgiving day turkey coma What is healthier Eating meat or being vegan Is green energy more efficient and how much would a city need to power itself Can sunscreen really give you cancer How far away are we from having a zoo full of extinct animals Is the science and technology in my favourite movie video game even possible Did they actually find water on Mars Why are the InSight and Parker Solar Probe missions so important All of this and more are answered in From The Vault of Schrodinger's Cat a collection of readers favourite posts from the beloved blog Schrodinger's Cat including footnotes of updates of how the science has progressed since the post was released and extensive works cited and resources to provide the same level of transparency dedication to fact checking and search for knowledge that the readers of Schrodinger's Cat have come to know

[Advances in Engineering Education in the Middle East and North Africa](#) Mahmoud Abdulwahed,Mazen O. Hasna,Jeffrey E. Froyd,2015-11-18 This book provides a collection of the latest advances in engineering education in the Middle East and North Africa MENA region and sheds insights for future development It is one of the first books to address the lack of comprehensive literature on undergraduate engineering curricula and stimulates intellectual and critical discourse on the next wave of engineering innovation and education in the MENA region The authors look at recent innovations through the lens of four topics learning and teaching curriculum development assessment and accreditation and challenges and sustainability They also include analyses of pedagogical innovations models for transforming engineering education and methods for using technological innovations to enhance active learning Engineering education topics on issues such as construction health and safety urban design and environmental engineering in the context of the MENA region are covered in further detail The book concludes with practical recommendations for implementations in engineering education This is an ideal book for engineering education academics engineering curriculum developers and accreditation specialists and deans and leaders in engineering education

William B. Bonvillian, Charles Weiss, 2015-08-18 The American economy misses opportunities for innovation growth and job creation because of a neglected problem the resistance to innovation from Legacy sectors like energy manufacturing and health care which constitute most of our economy The book offers systematic strategies to overcome the structural obstacles to innovation in critically important Legacy sectors *COMPLETE COURSE for employment on Offshore Drilling Rigs*

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