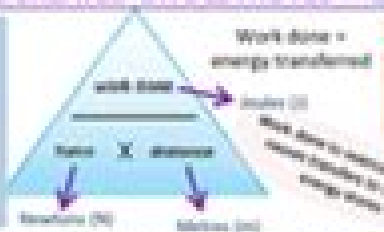


ENERGY CANNOT BE CREATED OR DESTROYED – ONLY TRANSFERRED

CONSERVATION OF ENERGY

In closed systems the total energy remains the same, nothing is lost externally.



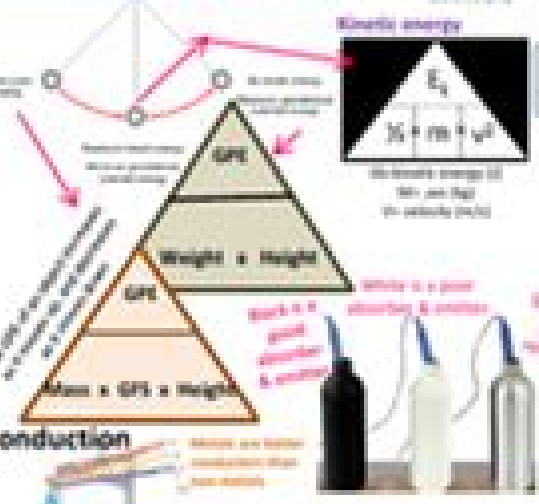
Useful energy out
Total energy in

Efficiency = $\frac{\text{useful energy out}}{\text{total energy in}}$

To increase efficiency:
Lubricate moving parts to reduce friction
Use low resistance wiring
Aerodynamic shape to reduce air resistance
Reduce vibrations of loose parts

Useful = light 60W
Total = 60+20+20 = 100
 $60 \div 100 = 0.6$ 0.6 x 100 = 60%

The more powerful an object, the faster the rate at which it transfers energy



Elastic potential energy
 $E_e = \frac{1}{2}kx^2$
k = Spring constant
x = extension of spring



Specific Heat Capacity
The amount of energy needed to raise the temperature of 1kg of a substance by 1°C



Physics Paper 1

Insulating buildings



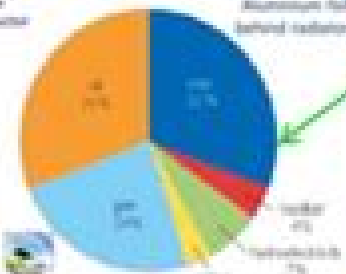
• Degrees Celsius (°C)
• Kilograms (kg)
• Joules (J)
• Joules per kilogram per degree Celsius (J/kg °C)

Appliance	Power rating
Toaster	1000
Light bulb	100W
Coffee	1000W



Insulation

U.V. - insulating material around the beakers
T.V. - temperature change of the water.
Control - size of beaker, volume of water, thickness of material, same thermometer, time left for



Energy demands!!

Renewable Energy: Energy from natural resources that are always being replenished, therefore won't run out.

Non-Renewable Energy: Energy from sources such as fossil fuels, which have limited supply and will eventually run out.

Carbon Neutral: when an organism (e.g. humans) takes in as much carbon dioxide from the atmosphere as they release when burned

Prefix	10 ¹	10 ²	10 ³	10 ⁴	10 ⁵	10 ⁶	10 ⁷	10 ⁸	10 ⁹
Symbol	10	10 ²	10 ³	10 ⁴	10 ⁵	10 ⁶	10 ⁷	10 ⁸	10 ⁹
Multiplying factor	10 ¹	10 ²	10 ³	10 ⁴	10 ⁵	10 ⁶	10 ⁷	10 ⁸	10 ⁹

Energy Resource	Process	Advantages	Disadvantages
Wind	Wind turbines rotated using wind, which rotates generators	Renewable, no greenhouse gases	Reliability - wind (lower energy transfer), Wind and noise pollution
Solar	Absorbs solar radiation, heats up water flowing through pipes	Renewable, no greenhouse gases	Reliability - sun (lower energy transfer), Wind pollution
Wave	Flowing generators move up and down turning internal generators	Renewable, no greenhouse gases	Reliability - waves (lower energy transfer), Wind pollution
Geothermal	Energy from earth's radioactive substances, heat water which turns turbines/generators	Renewable, no greenhouse gases	Reliability (lower energy transfer), Only in ground
Hydroelectric	Water collected in reservoirs and released downhill to turn a dam, rotating turbines which then drive generators	Renewable, no greenhouse gases	Reliability - sun (lower energy transfer), Wind and noise pollution, loss of habitat
Fossil fuels	Burns containing hydrocarbons control of total movement, driving generators	Renewable, no greenhouse gases	Reliability - high rates (lower energy transfer), Wind pollution
Nuclear	Heat, oil or gas, burning in power stations, heat water into steam which turns turbines/generators	Reliable, high demand, Transfers higher quantities of energy than renewable	Still run out, Release high amounts of carbon dioxide, greenhouse gases and particulates into atmosphere, 1000W

Grade 12 Physics Paper 1 Revision

JG Myers



Grade 12 Physics Paper 1 Revision:

The Top Books of the Year Grade 12 Physics Paper 1 Revision The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Grade 12 Physics Paper 1 Revision : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Table of Contents Grade 12 Physics Paper 1 Revision

1. Understanding the eBook Grade 12 Physics Paper 1 Revision
 - The Rise of Digital Reading Grade 12 Physics Paper 1 Revision
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 12 Physics Paper 1 Revision
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Grade 12 Physics Paper 1 Revision
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 12 Physics Paper 1 Revision
 - Personalized Recommendations
 - Grade 12 Physics Paper 1 Revision User Reviews and Ratings
 - Grade 12 Physics Paper 1 Revision and Bestseller Lists
5. Accessing Grade 12 Physics Paper 1 Revision Free and Paid eBooks
 - Grade 12 Physics Paper 1 Revision Public Domain eBooks
 - Grade 12 Physics Paper 1 Revision eBook Subscription Services
 - Grade 12 Physics Paper 1 Revision Budget-Friendly Options
6. Navigating Grade 12 Physics Paper 1 Revision eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 12 Physics Paper 1 Revision Compatibility with Devices
 - Grade 12 Physics Paper 1 Revision Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 12 Physics Paper 1 Revision
 - Highlighting and Note-Taking Grade 12 Physics Paper 1 Revision
 - Interactive Elements Grade 12 Physics Paper 1 Revision
8. Staying Engaged with Grade 12 Physics Paper 1 Revision

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Grade 12 Physics Paper 1 Revision
- 9. Balancing eBooks and Physical Books Grade 12 Physics Paper 1 Revision
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 12 Physics Paper 1 Revision
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 12 Physics Paper 1 Revision
 - Setting Reading Goals Grade 12 Physics Paper 1 Revision
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 12 Physics Paper 1 Revision
 - Fact-Checking eBook Content of Grade 12 Physics Paper 1 Revision
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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