# Physics notes

#### Energy stores and systems:

Energy never created or destroyed. Only ever transferred between different forms and objects. When transferred the energy is stored in an energy store:

- Thermal
- Kinetic
- Gravitational potential
- Electrostatic
- Magnetic
- Elastic
- Chemical
- Nuclear

Can be transferred mechanically, heating, electrically, light or sound waves, radiation. A system is a word for a singles object or a group of objects. An open system can gain or lose energy as it interacts with the outside world. Closed systems are separate from the outside world, neither matter nor energy can enter or leave. Work done two main types- mechanical and electrical. Mechanical – force to move an object. Electrical; - done when current flows.

#### Kinetic and potential energy stores:

Kinetic energy of an object is the energy that it possesses, due to its motion. Anything that's moving has kinetic energy. How much energy it has depends on two things: its speed and its mass. Speed – the faster the object is moving the more kinetic energy. Mass – more mass more kinetic energy.

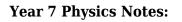
kinetic energy equation:

$$E_{\rm k} = \frac{1}{2} m v^2$$
 Ek = kinetic energy (j)  
m = mass (kg)  
v = velocity or speed (m/s)

$$E_k = kinetic energy of object$$
  
 $m = mass of object$   
 $v = speed of object$ 

# **Year 7 Physics Notes**

Marcel A. Müller



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#### **Table of Contents Year 7 Physics Notes**

- 1. Understanding the eBook Year 7 Physics Notes
  - The Rise of Digital Reading Year 7 Physics Notes
  - $\circ\,$  Advantages of eBooks Over Traditional Books
- 2. Identifying Year 7 Physics Notes
  - 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 Year 7 Physics Notes
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Year 7 Physics Notes
  - Personalized Recommendations
  - Year 7 Physics Notes User Reviews and Ratings
  - Year 7 Physics Notes and Bestseller Lists
- 5. Accessing Year 7 Physics Notes Free and Paid eBooks
  - Year 7 Physics Notes Public Domain eBooks
  - Year 7 Physics Notes eBook Subscription Services

- Year 7 Physics Notes Budget-Friendly Options
- 6. Navigating Year 7 Physics Notes eBook Formats
  - o ePub, PDF, MOBI, and More
  - Year 7 Physics Notes Compatibility with Devices
  - Year 7 Physics Notes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Year 7 Physics Notes
  - Highlighting and Note-Taking Year 7 Physics Notes
  - Interactive Elements Year 7 Physics Notes
- 8. Staying Engaged with Year 7 Physics Notes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Year 7 Physics Notes
- 9. Balancing eBooks and Physical Books Year 7 Physics Notes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Year 7 Physics Notes
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Year 7 Physics Notes
  - Setting Reading Goals Year 7 Physics Notes
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Year 7 Physics Notes
  - Fact-Checking eBook Content of Year 7 Physics Notes
  - 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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