

"INTRODUCTION TO ENERGY" WORKSHEET

Name KEY

Date _____

Block _____

Part 1. The two basic types of energy

Directions: Determine the best match between basic types of energy and the description provided. Put the correct letter in the blank.

- | | |
|--|----------------------|
| <u> b </u> 1. A skier at the top of the mountain | (a) Kinetic Energy |
| <u> b </u> 2. Gasoline in a storage tank | (b) Potential Energy |
| <u> a </u> 3. A race-car traveling at its maximum speed | |
| <u> a </u> 4. Water flowing from a waterfall before it hits the pond below | |
| <u> b </u> 5. A spring in a pinball machine before it is released | |
| <u> a </u> 6. A match burning | |

Part 2. Potential Energy.

Directions: Underline the situation in each pair that has the greater amount of **potential** energy.

1. A stretched or unstretched spring?
2. A ticking or newly wound-up clock?
3. A new battery in an unlit flashlight or in one which is lit?
4. A roller coaster car at the top of a hill or at the bottom?
5. A match before it is lit or a match while it is burning?

Part 3. Kinetic energy.

Directions: Underline the situation in each pair that has the greater amount of **kinetic** energy.

1. A pole vaulter before jumping or in mid-air at the top of his jump?
2. A bowling ball when your arm is all the way back or as it hits the pins?
3. A baseball bat just before it is swung or right after it is swung?
4. You before you get out of bed in the morning or you when you go to bed at night?
5. A match before it is lit or a match while it is burning?

Part 4. Energy transfer

Directions: Write the prefix **exo** or **endo** on the space provided to describe the changes below.

- | | | |
|-----------------|--|--------------|
| <u> endo </u> | 1. The melting of candle wax | <u> P </u> |
| <u> exo </u> | 2. The burning of gasoline to produce carbon dioxide and water | <u> C </u> |
| <u> exo </u> | 3. The condensation of water into a liquid | <u> P </u> |
| <u> endo </u> | 4. Getting a suntan | <u> C </u> |
| <u> exo </u> | 5. Metabolism | <u> C </u> |
| <u> endo </u> | 6. Photosynthesis | <u> C </u> |

7. In the margin of each situation above (part 4 only), place a "C" if the change was chemical and a "P" if the change was physical.

Answer Key To Introduction To Energy

Arshad Iqbal



Answer Key To Introduction To Energy:

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Table of Contents Answer Key To Introduction To Energy

1. Understanding the eBook Answer Key To Introduction To Energy
 - The Rise of Digital Reading Answer Key To Introduction To Energy
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key To Introduction To Energy
 - 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 Answer Key To Introduction To Energy
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key To Introduction To Energy
 - Personalized Recommendations
 - Answer Key To Introduction To Energy User Reviews and Ratings
 - Answer Key To Introduction To Energy and Bestseller Lists

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