

Conservation of Energy



Name: _____ Date: _____

Conservation of Energy

1. What method of heat transfer does the Sun use to heat the Earth's surface?

- conduction
- convection
- radiation

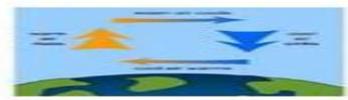


2. Which image correctly shows how the Sun heats the Earth's surface?



3. What method of heat transfer does the Earth's surface use to heat the Earth's atmosphere?

- conduction
- convection
- radiation



4. Which image correctly shows how the Earth's surface heats the Earth's atmosphere?



5. What are the energy transformations that take place in an electric pencil sharpener that is already plugged in?

- mechanical to electrical to thermal
- electrical to thermal to mechanical
- electrical to mechanical to thermal



6. Thermal energy always moves from a _____ temperature to a _____ temperature.

- colder, hotter
- hotter, colder
- thermal energy does not move.

7. What will happen to the butter in the experiment?

- The butter on the spoon on the right will melt first.
- The butter on the spoon on the left will melt first.
- The butter on the spoons will melt at the same time.



8. Heated air over a cup of hot cocoa expands and rises and is replaced by cooler, denser air. What method of heat transfer is that?

- convection
- conduction
- radiation



9. What are the energy transformations that take place in your cell phone from the battery to the light being given off by the screen?

- electrical to chemical to radiant
- radiant to electrical to chemical
- chemical to electrical to radiant



10. A rancher heated a piece of metal to make a horseshoe to 120°C and put it in a bucket of water that was 20°C . What is the most likely temperature of the water and the horseshoe in 30 minutes?

- The water is 20°C and the horseshoe is 120°C .
- The water is 85°C and the horseshoe is 85°C .
- The water is 90°C and the horseshoe is 30°C .

11. Identify the energy transformations that are occurring through an electric fan that is already plugged in.

- electrical to mechanical to thermal
- electrical to thermal to mechanical
- mechanical to electrical to thermal



12. An ice cream has been dropped on a hot sidewalk. How will the heat energy transfer?

- The sidewalk will move from the sidewalk to the ice cream.
- The sidewalk will move from the ice cream to the sidewalk.
- The heat will move from the sidewalk to the ice cream.



13. Which diagram shows the movement of thermal energy through the air?



14. A method of heat transfer that can occur even if no air is present is called _____.

- conduction
- radiation
- convection



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Mark Steyvers



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Table of Contents Physics Conservation Of Energy Worksheet Solutions

1. Understanding the eBook Physics Conservation Of Energy Worksheet Solutions
 - The Rise of Digital Reading Physics Conservation Of Energy Worksheet Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Conservation Of Energy Worksheet Solutions
 - 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 Physics Conservation Of Energy Worksheet Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Conservation Of Energy Worksheet Solutions
 - Personalized Recommendations
 - Physics Conservation Of Energy Worksheet Solutions User Reviews and Ratings
 - Physics Conservation Of Energy Worksheet Solutions and Bestseller Lists
5. Accessing Physics Conservation Of Energy Worksheet Solutions Free and Paid eBooks
 - Physics Conservation Of Energy Worksheet Solutions Public Domain eBooks
 - Physics Conservation Of Energy Worksheet Solutions eBook Subscription Services

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