

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

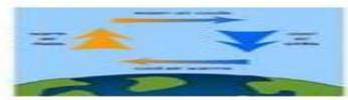


2. Which image correctly shows how the Sun heats the Earth's surface?



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



Physics Conservation Of Energy Worksheet Solutions

Mark Steyvers



Physics Conservation Of Energy Worksheet Solutions:

The Top Books of the Year Physics Conservation Of Energy Worksheet Solutions The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding 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. Physics Conservation Of Energy Worksheet Solutions : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins 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 compelling stories waiting to be discovered. The novel begins with Richard Papan, 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 thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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