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Heat Absorption

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: absorb, greenhouse, radiation, reflect, thermal energy

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Is it usually hotter outside when the Sun is low in the sky, such as early in the morning, or when the Sun is high in the sky, around noon? Normally, the area around the moon is significantly hotter.

2. If you want to stay cool on a hot, sunny day, should you wear black or white? Why?

White because materials that are white distort light more than those that are black.

Gizmo Warm-up

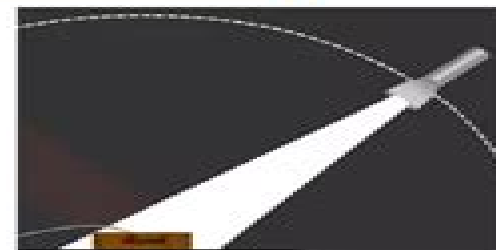
In the *Heat Absorption* Gizmo, a powerful flashlight can shine on a variety of materials. Make sure that the **Light color** is set to **White**.

1. Drag the **Wood** under the beam of light. What do you notice?

The wood reflects some of the light.

2. What is the color of the light that is **reflected** off the wooden block?

Brown



3. Click **Play** (▶) to start the clock.

- A. What happens to the temperature of the wood?

The temperature rises.

- B. The light that is not reflected away is **absorbed** by the wood. What does the absorbed light energy do to the wood?

The wood is heated by the light energy absorbed.

Energy that is transmitted through space by light waves is called **radiation**. The wood gets hotter because it gains **thermal energy** from the light waves.

Gizmo Answers On Heat Absorption

S Marginson

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Gizmo Answers On Heat Absorption:

New Directions in Technological Pedagogical Content Knowledge Research Dr. Myint Swe Khine, 2015-05-01 In the past decades wide ranging research on effective integration of technology in instruction have been conducted by various educators and researchers with the hope that the affordances of technology might be leveraged to improve the teaching and learning process However in order to put the technology in optimum use knowledge about how and in what way technology can enhance the instruction is also essential A number of theories and models have been proposed in harnessing the technology in everyday lessons Among these attempts Technological and Pedagogical Content Knowledge TPACK framework introduced by Mishra and Koehler has emerged as a representation of the complex relationships between technology pedagogy and content knowledge The TPACK framework extends the concept of Shulman s pedagogical content knowledge PCK which defines the need for knowledge about the content and pedagogical skills in teaching activities Since then the framework has been embraced by the educational technology practitioners instructional designers and educators TPACK research received increasing attention from education and training community covering diverse range of subjects and academic disciplines and significant progress has been made in recent years This book attempts to bring the practitioners and researchers to present current directions trends and approaches convey experience and findings and share reflection and vision to improve science teaching and learning with the use of TPACK framework A wide array of topics will be covered in this book including applications in teacher training designing courses professional development and impact on learning intervention strategies and other complex educational issues Information contained in this book will provide knowledge growth and insights into effective educational strategies in integration of technology with the use of TPACK as a theoretical and developmental tool The book will be of special interest to international readers including educators teacher trainers school administrators curriculum designers policy makers and researchers and complement the existing literature and published works

Seven Rules for Sustainable Communities Patrick M. Condon, 2012-02-13 Questions of how the design of cities can respond to the challenge of climate change dominate the thoughts of urban planners and designers across the U S and Canada With admirable clarity Patrick Condon responds to these questions He addresses transportation housing equity job distribution economic development and ecological systems issues and synthesizes his knowledge and research into a simple to understand set of urban design recommendations No other book so clearly connects the form of our cities to their ecological economic and social consequences No other book takes on this breadth of complex and contentious issues and distills them down to such convincing and practical solutions

Teaching Science to Children Alfred E. Friedl, Trish Yourst Koontz, 2001 This is a comprehensive easy to use text containing more than 300 science teaching activities 30 of which are new to this edition The book focuses on the inquiry approach places value on the students thinking and doing science and ties the text to the inquiry oriented National Science Education Standards for science teaching issued

by the National Research Council Each of the inquiry activities contains combined discussions of methods and content The text helps students overcome science anxiety and shows them how easy it is to teach science using a simple consistent three step approach to each of the science activities set induction investigation and resolution All activities use simple easy to find materials Over 250 pieces of line art clearly illustrate the teaching activities *MotorBoating* ,1971-11 **Boating** ,1996-01 *Power* ,1987 **InfoWorld** ,2002-02-04 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects **Power and the Engineer** ,1977 **New Scientist and Science Journal** ,2007 Business Week ,1994

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