



 solar panel 

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VIDEO

HIGH SCHOOL PHYSICS (TX TEKS)



The photoelectric and photovoltaic effects

When light at or above a threshold frequency shines on a metal surface, electrons are emitted from the surface. This phenomenon is called the photoelectric effect. The photoelectric effect is evidence that light is quantized—light exists as discrete packets of energy called photons. The greater the frequency of the light, the greater the energy of its photons. A closely related phenomenon is the photovoltaic effect, which is the underlying mechanism of solar cells.

VIDEO

HIGH SCHOOL BIOLOGY (TX TEKS)



Natural selection and adaptation

Natural selection leads to adaptation, that is, to a population dominated by organisms that are anatomically, behaviorally, and physiologically well suited to survive and reproduce in a specific environment. That is, the differential survival and reproduction of organisms in a population that have an advantageous heritable trait leads to an increase in the proportion of individuals in future generations that have the trait and to a decrease in the proportion of individuals that do not.

VIDEO

AP®/COLLEGE ENVIRONMENTAL SCIENCE



Solar energy

Passive solar energy systems absorb heat directly from the sun without the use of mechanical and electric equipment, and energy cannot be collected or stored. Active solar energy systems use solar energy to heat a liquid through mechanical and electric equipment to collect and store the energy captured from the sun. Photovoltaic solar cells capture light energy from the sun and transform it directly into electrical energy. Their use is limited by the availability of sunlight.

VIDEO

FINANCIAL LITERACY



Tax credits

Tax credits directly reduce the amount of tax you owe and can sometimes lead to a refund. Common credits include the Child Tax Credit, Earned Income Tax Credit, and education credits like the American Opportunity Credit. Unlike deductions, which lower taxable income, credits provide a dollar-for-dollar reduction in your tax bill.



VIDEO

COMPUTER SCIENCE THEORY

What is an algorithm and why should you care?

VIDEO

ASIAN ART MUSEUM



Zheng Chongbin on "I Look for the Sky"

The work of Zheng Chongbin, an American artist born in China and based in the Bay Area for more than three decades, has evolved from traditional figurative ink painting to a multidisciplinary practice encompassing abstract painting, installation, time-based media, and public art. His first solo museum exhibition on the West Coast, Zheng Chongbin: I Look for the Sky consists of two site-specific commissions that manipulate light and space, shifting our perspective of the ever-changing world. Suspended above Johnson S. Bogart Court at the Asian Art Museum of San Francisco, I Look for the Sky—the installation which gives this exhibition its title—invites us to reflect upon the museum on an architectural and symbolic level. Using panels of different transparencies to direct natural light, the installation immerses us in an expansive space that encourages discovery and possibility. "Zheng Chongbin: I Look for the Sky" marks the celebratory launch of the contemporary art department at the Asian Art Museum, following its decades-long effort to engage the artists of our time. In tandem with the Asian Art Museum's own recent transformation, Zheng Chongbin: I Look for the Sky reimagines the museum in spatial and conceptual terms, creating new encounters through the integration of artistic process and site. Artist Biography: Zheng Chongbin (American, b. China, 1961) has lived and worked as an artist in the San Francisco Bay Area since 1988. Throughout his practice, Zheng aims to convey and capture the vitality of matter. In his abstract paintings, he works to demonstrate (rather than illustrate) processes found in nature, through the organic interactions of ink, acrylic, paper, and light. In his videos and installations, Zheng explores the structures that comprise the world—from cellular systems to solar systems—and the way that order emerges from within our inherently chaotic existence. Zheng studied classical ink painting at the China Academy of Art in Hangzhou, as well as conceptual and performance art at the San Francisco Art Institute. <https://exhibitions.asianart.org/zheng-chongbin-i-look-for-the-sky/>

VIDEO

OER PROJECT: CLIMATE



WATCH: Are Natural Disasters Actually Natural?

Climate change has no bias, but our societies and systems do. And although it's a danger to all of us, a changing climate affects some groups disproportionately, raising issues of justice and equity. In this episode of Crash Course Climate and Energy, we'll take a look at the ways injustice within societal structures causes climate change to affect some more than others and discuss some of the work that environmental justice advocates are doing in response. Website: <https://www.oerproject.com> Facebook: <https://www.facebook.com/OERProject/> Twitter: <https://twitter.com/OERProject>

VIDEO

HIGH SCHOOL BIOLOGY



Science, technology, and the environment

Scientists and engineers are using banana peels and leaves to create biodegradable materials, such as shoe soles and containers, which help to reduce plastic waste and promote sustainability. Other green technologies include solar panels and windmills, which harness renewable energy sources to reduce reliance on fossil fuels and decrease greenhouse gas emissions. However, there are challenges and drawbacks of implementing these technologies, such as initial high costs and potential job losses in conventional industries.

VIDEO

ANCIENT MEDITERRANEAN + EUROPE



Mummy of Herakleides, Getty conversations

During ancient Egypt's last dynasty, a massive cultural exchange occurred between Greeks and Egyptians, then reflected in art and cultural practices. Learn how this Greco-Egyptian legacy influenced portrayals of the dead, such as for Herakleides. Getty has joined forces with Smarthistory to bring you an in-depth look at select works within our collection, whether you're looking to learn more at home or want to make art more accessible in your classroom. This six-part video series illuminates art history concepts through fun, unscripted conversations between art historians, curators, archaeologists, and artists, committed to a fresh take on the history of visual arts. A conversation with Dr. Sara E. Cole, Antiquities Department, Getty Museum and Dr. Steven Zucker, Executive Director, Smarthistory, in front of Mummy of Herakleides, 120–140 C.E., Romano-Egyptian. Human and bird remains; linen, pigment, beeswax, gold, and wood, 175.3 x 44 x 33 cm. Getty Villa, Los Angeles



VIDEO

ENTREPRENEURSHIP

Elon Musk - CEO of Tesla Motors and SpaceX

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