

Cross-Disciplinary

Incandescent Light Bulbs

Read the following paragraphs, and complete the exercises below.

In 1752, Ben Franklin with his kite experiment demonstrated that lightning is related to electricity. Experiments to understand electricity continued, and many electric devices were invented. In 1879, Thomas Edison invented a system of electric lighting that would eventually bring electric lights into homes. The key to Edison's electric lighting system was the incandescent light bulb.

Incandescent light bulbs are glass bulbs from which all air has been pumped out. The air is replaced with chemically inactive gas, like nitrogen. The glow from an incandescent light bulb comes from the filament, a little wire, which is often visible, inside bulbs. Today, the common material for filaments is tungsten. When electricity flows through the filament of an incandescent bulb, the tungsten wire gets hot enough to glow and give off light. Atoms of tungsten evaporate from the white-hot filament. The escaped tungsten atoms collect on the glass and darken it. Over time, the filament grows thin and eventually breaks.

HALOGEN BULBS

A variation of the incandescent light bulb is the halogen bulb. Gases inside halogen bulbs are chemically active. Each time a tungsten atom leaves the filament, halogen molecules inside the glass pick it up and return it to the filament. Redepositing the tungsten atoms back on the filament allows the filament to last longer. These halogen molecules can do this job only if the glass of the bulb is allowed to get extremely hot—much hotter than incandescent bulbs get.

EXERCISES

1. Which type of light bulb, ordinary incandescent or halogen, would last longer? Explain your answer.

2. What causes the tungsten atoms to evaporate from the filament?

Answer Key To Skills Cross Disciplinary

JA Banks



Answer Key To Skills Cross Disciplinary:

Multi-disciplinary Teams in Context-sensitive Solutions Leigh Blackmon Lane, National Cooperative Highway Research Program, 2007 *Digital Tools and Solutions for Inquiry-Based STEM Learning* Levin, Ilya, Tsybulsky, Dina, 2017-03-31 In the digital age the integration of technology has become a ubiquitous aspect of modern society These advancements have significantly enhanced the field of education allowing students to receive a better learning experience Digital Tools and Solutions for Inquiry Based STEM Learning is a comprehensive source of scholarly material on the transformation of science education classrooms through the application of technology Including numerous perspectives on topics such as instructional design social media and scientific argumentation this book is ideally designed for educators graduate students professionals academics and practitioners interested in the latest developments in the field of STEM education *A Practical Guide for Developing Cross-Disciplinary Collaboration Skills* David Gosselin, 2023-08-23 Solutions to societal and organizational problems require people from diverse fields of expertise to effectively work in team based collaborative environments To create these environments we need to address a myth in modern culture that people have natural abilities to collaborate and work together Collaboration and teamwork are skills As such these skills need to be learned and practiced Commonly collaboration is learned through trial and error Team members have little or no training in how to effectively and efficiently harness the diversity of strengths among team members and maximize their contributions to the team The purpose of this book is to provide a practical process oriented guide that at its most fundamental level is about building relationships and promoting communication and learning among diverse groups of individuals that results in creative collaborative and inclusive problem solving environments This volume provides explicit approaches and processes that will help team members more effectively and efficiently create new knowledge and solutions for societal and organizational problems through collective action *Science for a Better Tomorrow* Ulrich A. K. Betz, 2025-09-19 This book explores the intersection of biosciences artificial intelligence AI and information technology IT highlighting their potential to drive innovation in biomedicine and health particularly in the context of pandemic resiliency and human longevity The book expands on the discussion held at the Curious2024 Future Insight Conference capturing the innovative spirit and collaborative ethos of the conference In this book readers will find a diverse array of topics including individualized medicine for cardiovascular disease the sustainable transformation of chemical processes and the future of drug discovery through an AI driven lens The book also investigates the role of synthetic biology in leveraging the ground truth of intelligence and explores the potential of developing conscious service robots Chapters written by keynote speakers from the Curious2024 Future Insight Conference emphasize the importance of interdisciplinary and transdisciplinary dialogue for breakthrough innovation These contributions also provide a comprehensive analysis of the challenges and opportunities that lie ahead making this book an essential read for those interested in the future of science and technology By highlighting the crucial role of scientists in

solving today's problems and enabling the dreams of a better tomorrow the book appeals to a broad readership of researchers scholars and practitioners in biosciences AI and IT It also serves as a valuable resource for early career researchers seeking mentorship and guidance

Data Analysis & Probability: Word Problems Vol. 1 Gr. PK-2 Tanya Cook,2015-01-01 This is the chapter slice Word Problems Vol 1 Gr PK 2 from the full lesson plan Data Analysis Probability For grades PK 2 our resource meets the data analysis probability concepts addressed by the NCTM standards and encourages your students to learn and review the concepts in unique ways Each task sheet is organized around a central problem taken from real life experiences of the students The pages of this resource contain a variety of content and levels of difficulty so as to provide students with different learning opportunities Included in our resource are activities to help students learn how to collect organize analyze interpret and predict data probabilities The task sheets offer space for reflection and the opportunity for the appropriate use of technology Also contained are assessment and standards rubrics review sheets color activity posters and bonus worksheets All of our content meets the Common Core State Standards and are written to Bloom's Taxonomy STEM and NCTM standards

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Data Analysis & Probability - Task Sheets Gr. PK-2 Tanya

Cook,2009-11-01 Students ability to read and understand information presented is an essential part to any math program Our resource provides task and word problems surrounding real life scenarios Use a tally sheet to figure out what color is most often picked as someone s favorite Gather information first hand by finding out which month has the most birthdays Use a bar graph to figure out how many students take the bus to school Create a class chart for fruits eaten during the week Flip a coin 10 times and keep track of the results Which coin is most likely to come up on the eleventh flip Ask questions about how much candy was collected on Halloween by looking at a pictograph The task sheets provide a leveled approach to learning starting with prekindergarten and increasing in difficulty to grade 2 Aligned to your State Standards and meeting the concepts addressed by the NCTM standards reproducible task sheets drill sheets review and answer key are included

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