

ELECTRICAL POWER WORKSHEET

$$\text{Power} = \text{Potential Difference} \times \text{Current}$$

$$P = V \times I$$

$$\text{Power} = \text{Current}^2 \times \text{Resistance}$$

$$P = I^2 \times R$$

1. Jarmin builds a circuit with a bulb, an ammeter and a 6V battery. The ammeter reads 2A, what is the power supplied to the bulb?

$$6 \times 2 = 12\text{W}$$

2. A resistor of 8Ω has a current flowing through it of 3A, what is the power supplied to the resistor?

$$3^2 \times 8 = 9 \times 8 = 72\text{W}$$

3. An LED has a measured power output of 12W. If the voltage of the attached battery is 3V, what is the current flowing through the LED?

$$12 \div 3 = 4\text{A}$$

4. An electric hob has a power output of 2000W and a current flowing through it of 10A.
a. What is the potential difference across the hob?

$$2000 \div 10 = 200\text{V}$$

- b. What is the resistance of the hob?

$$2000 \div 10^2 = 2000 \div 100 = 20\Omega$$

5. Josef needs to change the fuse in his television. He reads the manual and discovers that the television requires a power input of 2500W to work. Josef has a 3A, a 5A and a 13A fuse. Knowing that the UK mains voltage is 230V, which fuse should he choose?

$$2500 \div 230 = 10.87\text{A, so 13A fuse}$$

6. In the 30 seconds it takes for a kettle to boil, it is supplied with 18000 Joules of energy and 1200 Coulombs.

- a. What is the power supplied to the kettle?

$$18000 \div 30 = 600\text{W}$$

- b. What is the current flowing through the kettle?

$$1200 \div 30 = 40\text{A}$$

- c. What is the potential difference across the kettle?

$$600 \div 40 = 15\text{V}$$

- d. What is the resistance of the kettle?

$$600 \div 40^2 = 600 \div 1600 = 0.375\Omega$$

Math Skills Electric Power Answers

BarCharts, Inc.

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Math Skills Electric Power Answers:

Contemporary's Math Skills that Work Robert Mitchell,1991 These six books identify basic skills critical thinking and positive personal qualities students must have to contribute to the workforce Two levels show students how the skills they learn in the classroom apply to workplace and life skills competencies Assessment programs offer additional practice through tests answer sheets personal profiles and scoring guides Math Book Two Using decimals fractions and percents reading thermometers rulers scales and gauges interpreting graphs and data calculating commissions and interest determining unit prices and extended costs and understanding schedules and budgets **Daily Skill-Builders: Science & Technology 5-6** ,

Resources in Education ,1996-10 **Darts on History of Mathematics** SATISH C. BHATNAGAR,2014-10-29 What is new in the book Apart from its format in brief it has thought provoking angles of observation and deductive conclusions on many topics which may look ordinary or rare Who will benefit from the book Any lay person with an historical bent of mind on mathematical topics stands to gain from it Both undergraduate and graduate students in history of mathematics courses would enjoy it All reflections are independentthey are excellent bedtime reading too **MATH BRIDGES TO A BETTER**

FUTURE: James Elander,2023-09-05 There s no available information at this time Author will provide once information is available *Science Spectrum* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003-03 **Friedland/Relyea Environmental Science for AP*** Andrew Friedland,Rick Relyea,David Courard-Hauri,2011-02-15 Friedland Relyea Environmental Science for AP was specifically developed to meet the requirements of the AP Environmental Science course and the needs of its students and teachers This highly anticipated new textbook explores the science behind environmental science and involves students with the fundamental concepts and findings that inform environmental decision making at all levels from personal choices to national and international policy This site will be the source for periodic updates on this exciting project as it draws closer to publication For the latest developments or if you would like to be a part of this project as a reviewer or class tester please contact Carlise Stembridge [Math for Humans](#) H. Mark Wahl,1999 [Technical Physics](#) Frederick Bueche,David L. Wallach,1994-03-31 The basic nature of the text remains the same but numerous modifications have been made to enhance its teachability Photometry units and definitions are now consistent with the latest publications A discussion of ideal fluid flow with Bernoulli s equation and the conservation of mass has been added An expanded mathematics section of the appendix includes logarithms and their equations as well as approximations and trigonometric identities Problems are greater in both number and variety **Prentice Hall Science Explorer: Teacher's ed** ,2005 **Electricity and Electronics Today** W. J. Haynie,1988 A basic textbook survey of electricity and electronics covering such topics as current resistance control devices systems and various applications *Electricity and Magnetism* Holt Rinehart & Winston,2003-12 *STEAM Meets Story* Gloria D. Campbell-Whatley,Diane Rodríguez,Jugnu Agrawal,2021-06-11 This innovative STEAM guide will help general and special education teachers to increase effective

instruction with adolescents grades 5 10 The authors show teachers how to link STEM concepts with popular fiction and film selections as a catalyst to launch student interactions discussions projects and investigations This approach will promote problem solving and reasoning skills by initiating the scientific process rather than simply presenting established facts The book includes a wealth of lesson plans that connect abstract STEM ideas to realistic experiences that students encounter Sample lessons call on students to produce drawings and models that move STEM to STEAM Grounded in popular film and some of the most read young adult books the text includes teaching strategies found to be effective with traditionally underserved students and those with disabilities Book Features Standards based STEM lessons interrelated and interwoven with writing reading speaking and other skills Practical ideas and hands on activities for engaging adolescents in both traditional and virtual environments Guidance for working with diverse populations such as students with different abilities culturally and linguistically diverse students translingual students and transnational students Templates handouts and lessons linked to Star Wars The Giver The Immortal Life of Henrietta Lacks Harry Potter To Kill a Mockingbird Star Trek The Matrix Holes and more *Soldiers* ,1993 **Weekly World News** ,1988-02-09 Rooted in the creative success of over 30 years of supermarket tabloid publishing the Weekly World News has been the world's only reliable news source since 1979 The online hub www.weeklyworldnews.com is a leading entertainment news site **Western Electrician** ,1893

Pp/Chemistry BarCharts, Inc.,2008-06-18 **Engineering Justice** Jon A. Leydens,Juan C. Lucena,2017-12-18 Shows how the engineering curriculum can be a site for rendering social justice visible in engineering for exploring complex socio technical interplays inherent in engineering practice and for enhancing teaching and learning Using social justice as a catalyst for curricular transformation Engineering Justice presents an examination of how politics culture and other social issues are inherent in the practice of engineering It aims to align engineering curricula with socially just outcomes increase enrollment among underrepresented groups and lessen lingering gender class and ethnicity gaps by showing how the power of engineering knowledge can be explicitly harnessed to serve the underserved and address social inequalities This book is meant to transform the way educators think about engineering curricula through creating or transforming existing courses to attract retain and motivate engineering students to become professionals who enact engineering for social justice Engineering Justice offers thought provoking chapters on why social justice is inherent yet often invisible in engineering education and practice engineering design for social justice social justice in the engineering sciences social justice in humanities and social science courses for engineers and transforming engineering education and practice In addition this book Provides a transformative framework for engineering educators in service learning professional communication humanitarian engineering community service social entrepreneurship and social responsibility Includes strategies that engineers on the job can use to advocate for social justice issues and explain their importance to employers clients and supervisors Discusses diversity in engineering educational contexts and how it affects the way students learn and develop

Engineering Justice is an important book for today's professors, administrators, and curriculum specialists who seek to produce the best engineers of today and tomorrow. Popular Mechanics, 1963-08: Popular Mechanics inspires, instructs, and influences readers to help them master the modern world. Whether it's practical DIY home improvement tips, gadgets, and digital technology information on the newest cars or the latest breakthroughs in science, PM is the ultimate guide to our high-tech lifestyle. **Weekly World News**, 1989-03-21: Rooted in the creative success of over 30 years of supermarket tabloid publishing, the Weekly World News has been the world's only reliable news source since 1979. The online hub www.weeklyworldnews.com is a leading entertainment news site.

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