

Chapter 5: Work and Machines Guided Reading

Read the indicated sections and answer the following questions. They are IN ORDER from the text.

Pages 126-131

- How are an applied force and an object's motion related when work is done? The applied force and the object's motion must be in the same direction.
- Using figure 3- Explain how the energy of the box changes as the student climbs the stairs? Potential energy increases because the box is being moved up the stairs.
- Work equation. Label and include the units for each variable.
 $W = Fd$ $W = \text{work (J)}$ $F = \text{force (N)}$ $d = \text{distance (m)}$
- How is power related to work? Power is the amount of work is done per second.
- Power equation. Label and include the units for each variable.
 $P = W/t$ $P = \text{power (W)}$ $W = \text{work (J)}$ $t = \text{time (s)}$

Pages 132-137

- How does a ramp make lifting an object easier? Less force is needed to lift an object when using a ramp.
- Using figure 10- Describe how the hammer changes the input force. The hammer produces an output force that is greater than the input force.
- Mechanical Advantage equation. Label and include the units for each variable.
 $MA = \text{Output force} / \text{Input force}$ $MA = \text{mechanical advantage (no units)}$ Both forces are in N
- Why is the output work always less than the input work for a real machine? Because some of the input force is converted into thermal energy.
- Efficiency equation. Label and include the units for each variable
 $\text{Efficiency} = \text{Output work (J)} / \text{Input work (J)} \times 100$

Pages 138-146

- Identify each of the classes of levers and give an example of each. 1st- see saw 2nd- wheel barrow 3rd- crowbar
- Identify each of the types of pulleys and give an example of each. Fixed pulley- well Movable pulley- static line Block & tackle- used on sailboats.
- How does a movable pulley reduce the input force needed to lift a weight? You have to increase the distance the rope moves by double.
- Give an example of a wheel and axle, inclined plane, screw, and wedge. Wheel & axle- screwdriver Inclined plane- stairs Screw- bolt Wedge- doorstop
- Define compound machine. Give an example of one and list the types of machines it includes.
Combination of 2 or more simple machines.

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Sebastian Brünink



What Are The Answers To Chapter 5 Section 3 Magruder's Guided Reading:

Magruder's American Government Guided Reading and Review Workbook Student Edition 2003c William A.

McClenaghan, 2002-05-15 High School Hailed as a stellar educational resource for nearly a century Magruder's American Government is updated annually to meet the changing needs of today's high school students and teachers The program's engaging narrative is enhanced with numerous primary sources political cartoons charts graphs and photos making the structure and principals of government accessible and motivating to students of all abilities **Practical Data Analytics**

for Innovation in Medicine Gary D. Miner, Linda A. Miner, Scott Burk, Mitchell Goldstein, Robert Nisbet, Nephi

Walton, Thomas Hill, 2023-02-08 Practical Data Analytics for Innovation in Medicine Building Real Predictive and Prescriptive Models in Personalized Healthcare and Medical Research Using AI ML and Related Technologies Second Edition discusses the needs of healthcare and medicine in the 21st century explaining how data analytics play an important and revolutionary role With healthcare effectiveness and economics facing growing challenges there is a rapidly emerging movement to fortify medical treatment and administration by tapping the predictive power of big data such as predictive analytics which can bolster patient care reduce costs and deliver greater efficiencies across a wide range of operational functions Sections bring a historical perspective highlight the importance of using predictive analytics to help solve health crisis such as the COVID 19 pandemic provide access to practical step by step tutorials and case studies online and use exercises based on real world examples of successful predictive and prescriptive tools and systems The final part of the book focuses on specific technical operations related to quality cost effective medical and nursing care delivery and administration brought by practical predictive analytics Brings a historical perspective in medical care to discuss both the current status of health care delivery worldwide and the importance of using modern predictive analytics to help solve the health care crisis Provides online tutorials on several predictive analytics systems to help readers apply their knowledge on today's medical issues and basic research Teaches how to develop effective predictive analytic research and to create decisioning prescriptive analytic systems to make medical decisions quicker and more accurate *The Journal of Education*, 1884 **The Epworth Herald**

, 1903 **Subject Guide to Children's Books in Print 1997** Bowker Editorial Staff, R R Bowker Publishing, 1996-09

Michigan Education Journal, 1945 Includes section Moderaor topics **North & South**, 2000 **Books In Print 2004-2005** Ed Bowker Staff, Staff Bowker, Ed, 2004

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