

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

1. 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.
2. 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.
3. Work equation. Label and include the units for each variable.
 $W = Fd$ $W = \text{work (J)}$ $F = \text{force (N)}$ $d = \text{distance (m)}$
4. How is power related to work? Power is the amount of work is done per second.
5. 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

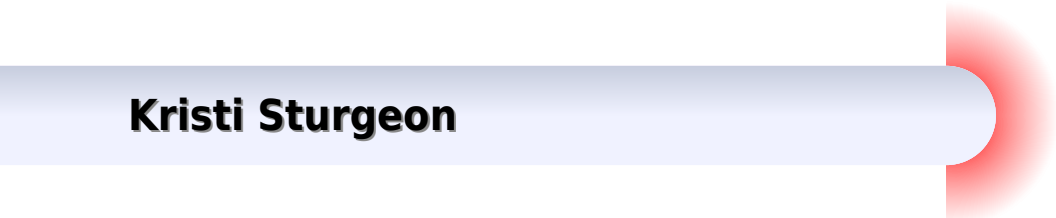
6. How does a ramp make lifting an object easier? Less force is needed to lift an object when using a ramp.
7. Using figure 10- Describe how the hammer changes the input force. The hammer produces an output force that is greater than the input force.
8. Mechanical Advantage equation. Label and include the units for each variable.
 $MA = \text{Output force} / \text{Input force}$ $MA = \text{mechanical advantage (no units)}$ Both forces are in N
9. 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.
10. 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

11. Identify each of the classes of levers and give an example of each. 1st- see saw 2nd- wheel barrow 3rd- crowbar
12. 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.
13. 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.
14. Give an example of a wheel and axle, inclined plane, screw, and wedge. Wheel & axle- screwdriver
Inclined plane- stairs Screw- bolt Wedge- doorstop
15. Define compound machine. Give an example of one and list the types of machines it includes.
Combination of 2 or more simple machines.

Chapter 5 Section 4 Guided Reading Answers

Kristi Sturgeon



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Freckle Juice: An Instructional Guide for Literature Kristi Sturgeon, 2015-05-01 This instructional guide for literature is the ideal tool to help students analyze and understand this classic story. The engaging and rigorous lessons and activities utilize research-based literacy skills that will help students become efficient readers. Students will dive eagerly into the story of Andrew's quest to get just one freckle. They will practice guided close reading, study text-based vocabulary, analyze characters and story elements, and much more while making cross-curricular connections to mathematics, science, social studies, and other areas. Strengthen your students' literacy skills by implementing this high-interest resource in your classroom.

Freckle Juice Vocabulary Activities Kristi Sturgeon, 2015-06-26 These vocabulary activities for Freckle Juice incorporate key skills for college and career readiness. The activities integrate vocabulary with the study of the texts. Includes text-dependent questions, definitions, and text-based sentences.

SAT For Dummies Geraldine Woods, Ron Woldoff, 2016-04-04 The easy way to prepare for the SAT. The College Board has announced a redesign to the SAT in the spring of 2016. There's no doubt that students, parents, and educators are clamoring for a revised and authoritative resource on the latest iteration of this important standardized test. Packed with loads of concept review and practice questions that cover everything you can expect to encounter on the math, reading, and writing sections and complemented with one year access to additional SAT practice online, this 2016/2017 edition of SAT For Dummies covers everything you need to increase your chances of scoring higher and getting into the college of your dreams. The SAT is administered annually to more than 2 million students at approximately 6,000 test centers located in more than 170 countries. Nearly every college in America accepts the SAT or SAT Subject Test as part of its admission process. Written by veteran For Dummies author and test preparation guru Geraldine Woods, 2016/2017 SAT For Dummies breaks down the topics covered on the redesigned SAT into easily digestible parts and gives you ample practice opportunities to pinpoint where you need more help and go on to master every subject. Offers strategies to stay focused on SAT test day. Helps you gauge how you measure up as you prepare for the SAT. Includes tips on how to manage your time wisely. Provides practice problems and exercises in print and digital formats to take your skills to the next level. If the thought of preparing for the SAT makes you sweat, fear not! 2016/2017 SAT For Dummies takes the intimidation out of the exam and arms you with the confidence and know-how you need to make it your minion.

The American Journey Joyce Oldham Appleby, Alan Brinkley, James M. McPherson, 2003

Geography Heidi Hayes Jacobs, Brenda Randolph, Michal LeVasseur, 2001

Close Reading Literature Activities for Grades 2-3 (Set B), 2014-06-01 Students analyze three children's books using key skills from the Common Core. Close reading of the text is required to answer text-dependent questions. Included are student pages with the text-dependent questions as well as suggested answers.

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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. **Sarah, Plain and Tall: An Instructional Guide for Literature** Kristi Sturgeon, 2014-03-01 Young readers will enjoy this heartwarming story following Sarah's journey with a small family to become the mother figure they desperately need. Sarah, Plain and Tall: An Instructional Guide for Literature provides rigorous and engaging lessons and activities to aid your students' explorations of rich, complex literature. Readers will learn such skills as analyzing and comprehending story elements in multiple ways, practicing close reading and text-based vocabulary, and determining meaning through text-dependent questions. Add rigor to your students' explorations of this Newbery Medal-winning novel. Sarah, Plain and Tall Comprehension Assessment Kristi Sturgeon, 2014-01-01 These assessment questions for Sarah, Plain and Tall are modeled after current testing models requiring students to revisit the text for answers. Students have to support their opinions and inferences with examples from the text. Close Reading Literature Activities for Grades K-1 (Set B), 2014-06-01 Students analyze three children's books using key skills from the Common Core. Close reading of the text is required to answer text-dependent questions. Included are student pages with the text-dependent questions as well as suggested answers.

The book delves into Chapter 5 Section 4 Guided Reading Answers. Chapter 5 Section 4 Guided Reading Answers is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Chapter 5 Section 4 Guided Reading Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Chapter 5 Section 4 Guided Reading Answers
 - Chapter 2: Essential Elements of Chapter 5 Section 4 Guided Reading Answers
 - Chapter 3: Chapter 5 Section 4 Guided Reading Answers in Everyday Life
 - Chapter 4: Chapter 5 Section 4 Guided Reading Answers in Specific Contexts
 - Chapter 5: Conclusion
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4. In chapter 3, this book will examine the practical applications of Chapter 5 Section 4 Guided Reading Answers in daily life. This chapter will showcase real-world examples of how Chapter 5 Section 4 Guided Reading Answers can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Chapter 5 Section 4 Guided Reading Answers in specific contexts. This chapter will explore how Chapter 5 Section 4 Guided Reading Answers is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Chapter 5 Section 4 Guided Reading Answers. The final chapter will summarize the key points that have been discussed throughout the book.
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Chapter 5 Section 4 Guided Reading Answers Introduction

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web definition of beam optics beam optics the process of guiding a charged particle beam from to b using magnets an array of magnets which accomplishes this is a transport system or magnetic lattice recall the lorentz force on a particle $f = ma = e c v \times B$ where $m = \gamma m_0$ relativistic mass

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web the magnetic field that results from powering the coils is present whether the beam is there or not we are interested in finding the field in this aperture and also in knowing how to build a magnet to get the desired field typically accelerators and beamlines have magnets that serve individual functions

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web the electron beam is bent by a toroidal magnetic coil at the beginning and end of the overlap region collisions between the continuously renewed electron beam and the ions serve to reduce the random motions of the ions leading to a high energy resolution

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web two pairs of magnetic coils are usually placed near the entrance far end of the waveguide to bend the direction of electron beam radially and transversely these are called directional bending magnetic coils

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web the coil is bent at an acute angle at the center between the left and right wings the bending forces the coil to conform to the shape of the human head moreover it results in an increased depth of the induced electric fields in the brain

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web number of conductor turns in a coil is n magnetic field strength h 1 oe 103 4 a m 79 58 a m mmf magnetic flux 1 wb 1 vs assignment design a 90 degree bending magnet for beam analysis with the duoplasmatron

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web where h is the strength of the magnetic field in ampere turns metre at m n is the number of turns of the coil i is the current flowing through the coil in amps l is the length of the coil in metres m then to summarise the strength or intensity of a coil's magnetic field depends on the following factors the number of turns of wire within the coil

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