

## 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. 1<sup>st</sup>- see saw    2<sup>nd</sup>- wheel barrow    3<sup>rd</sup>- 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.

# Chapter 5 Guided Reading Answers

**William A. McClenaghan**



## Chapter 5 Guided Reading Answers:

**Diagnosis and Correction of Reading Problems** Darrell Morris, 2013-10-29 This widely adopted text and teacher resource provides a comprehensive approach to assessing and remediating reading difficulties in grades K-6. Darrell Morris presents rich case studies of beginning and older readers struggling with different types of reading problems. He shows how to administer a thorough diagnostic battery and provide instruction tailored to each student's needs. In addition to one-to-one tutoring strategies, small group and whole class applications are discussed. Reproducible tools, book lists, and other user-friendly materials can be photocopied from the book or downloaded and printed in a convenient 8 1/2 x 11 size. New to This Edition: Detailed explanations of how to adapt the techniques for classroom use. The latest research findings pertaining to reading diagnosis. Updated and expanded book lists. Chapter on historical and theoretical foundations. See also the Morris Informal Reading Inventory Preprimer through Grade 8, a complementary assessment tool that yields systematic data on K-8 students' reading abilities. 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. **Bookwise** Sharon Parsons, 2001 Including both fiction and non-fiction text types and genres, this work is graded and organized into five cross-curricular strands. These full-color readers are accompanied by teacher's guides and resource sheets. Resource sheets relate to the main Word and Sentence Level teaching points in the corresponding Guided Reading session. *The Reading Intervention Toolkit* Laura Robb, 2016-04-15 This classroom resource addresses the instructional challenges faced by fourth to eighth grade teachers and provides research-based tools needed to improve students' reading comprehension. These classroom-tested interventions can be used with struggling readers in 5-10 to 15 and 30 to 40 minute settings. Key features of this professional development resource include responsive teaching and differentiation, the four kinds of interventions that can support students' reading, intervention tools and strategies for teachers and students, the use of focus standards to discuss key reading strategies, inferring, finding main ideas and themes, and using context to determine a word's meaning and getting students to write about their reading. Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day. Relevant content, lively explorations, and a wealth of hands-on activities take students' understanding of science beyond the page and into the world around them. Now includes even more technology tools and activities to support differentiated instruction. *Introduction to Networks and Networking, Workbook* McGraw-Hill, 2004-06 **CliffsNotes Praxis Reading for Virginia Educators** Jane R.

Burstein, Diane E. Kern, 2020-12-15 The perfect way to study for Virginia's elementary education and special education reading teacher certification test with subject reviews and two model practice tests Focusing on what entry level Virginia elementary and special education teachers need to be certified to teach this test prep guide includes targeted strategies for the selected response and constructed response questions and reviews of every test specification a candidate will be tested on including instructional process assessment and diagnostic teaching oral language and communication reading development and writing and research The two practice tests are full length model exams that include answers and explanations to help candidates succeed when they take the test

*Geography* Heidi Hayes Jacobs, 1998 Study Guide to Accompany Criminal Justice Freda A. Adler, Adler, Gerhard O. W. Mueller, William S. Laufer, 1993-11 **Report** Maryland. Board of Education, 1916 The Mathematics Experience Mary Ann Haubner, 1992 **Guided Reading** Wright Group, Incorporated, 1995 The American Journey Joyce Oldham Appleby, Alan Brinkley, James M. McPherson, 2003 *Human Heritage* Miriam Greenblatt, Peter S. Lemmo, 2001 A world history textbook chronicling the rise of Western and Eastern civilizations Includes photos art illustrated charts vocabulary exercises and review questions **Developmental Reading, K-8** Daniel R. Hittleman, 1988 **Reaching Readers** Michael F. Opitz, Michael P. Ford, 2001 With Reaching Readers they offer a second generation model of guided reading one that urges teachers to expand their vision and presents alternative practices

*Are You Prepared to Teach Reading?* James Zarrillo, 2007 For Reading Methods classes Are You Prepared to Teach Reading will help students prepare for state certification examinations on reading instruction and self regulate their own learning about teaching reading The concise prep book will be useful for all teacher candidates who want to self assess their fundamental knowledge of reading instruction adequately prepare for their own state reading certification exams or assess their core knowledge of literacy instruction if they are engaged in alternative certification programs Brief reviews of the components of reading instruction followed by case studies and thoughtful diverse multicultural classroom scenarios allow readers to assess themselves with multiple choice decision making questions asking what readers know about reading practice

**The Americans** McDougal-Littell Publishing Staff, 2002-03-04 Content Area Reading Anthony V. Manzo, Ula Casale Manzo, 1990 A content reading methods text that takes a quick start heuristic approach to imparting the skills future teachers need to improve their pupils reading ability in essential content areas Coverage of current theories and practices in comprehension assessment and heuristics is organized around pre reading guided silent reading and post reading

*Content Area Reading, 2e* Vacca, 1998-03-21

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