





Introduction

his resource provides
ready-to-use information
and activities for
remedial students in grades
five to eight. Written to grade
using simplified language and
vocabulary, science concepts
are presented in a way that makes them
more accessible to students and easier to und

more accessible to students and easier to understand. Comprised of reading passages, student activities and overhead transparencies, our resource can be used effectively for whole-class, small group and independent work.



STUDENT HANDOU

Reading passages and **ctivities** (in the orm of reproducible worksheets) may ap the najority of our resource. The reading passages present important grade-appropriate information and appropriate to the topic. Embedded in each passage are one or more questions that ensure students understand what they have read.

For each reading passage there are BEFORE YOU READ activities and AFTER YOU READ activities.

- The BEFORE YOU READ activities prepare students for reading by setting a purpose for reading. They stimulate background knowledge and experience, and guide students to make connections between what they know and what they will learn. Important concepts and vocabulary are also presented.
- The AFTER YOU READ activities check students'
 comprehension of the concepts presented in the
 reading passage and extend their learning. Students
 are asked to give thoughtful consideration of the
 reading passage through creative and evaluative shortanswer questions, research, and extension activities.

Hands-on activities are included to further develop students' thinking skills and understanding of the concepts. The **Assessment Rubric** (*page 4*) is a useful tool for evaluating students' responses to many of the activities in our resource. The **Comprehension Quiz** (*page 48*) can be used for either a follow-up review or assessment at the completion of the unit.

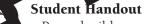
PICTURE CUES

Our resource contains the main types of pages, each with a different purpose and use. A **Picture Cue** at the top of each page shows, at a great, what the page is for.



ack r Guide

• Information and tools for the teacher



• Reproducible worksheets and activities

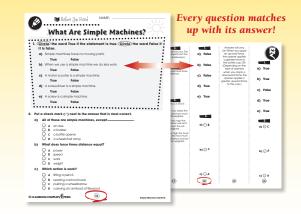


Easy Marking[™] Answer Key

• Answers for student activities

EASY MARKING™ ANSWER KEY

Marking students' worksheets is fast and easy with this **Answer Key**. Answers are listed in columns – just line up the column with its corresponding worksheet, as shown, and see how every question matches up with its answer!











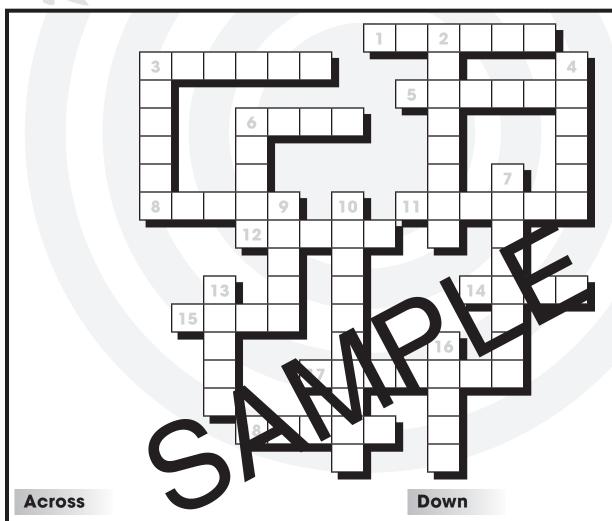
Gains and Losses with Simple Machines

1.	_	ircle t is fa		True if the statement is true. Circle the word False
	a)	You c		e things with simple machines that you couldn't do without
•		Tr	ue	False
•	b)	If a si	mple mach	nine makes something easier, it always makes it quicker too.
•		Tr	ue	False
•	c)	Wher too.	n we gain so	omething with a simple machine, we always lose something
•		Tr	ue	False
•	d)		n you swing is speed.	an axe to chop a log or swing a bat habita ball, what you
•		Tr	ue	False
•	e)	The e to pu	asier it is to Il to do it.	lift something was a set of pulley. The less rope you have
•		Tr	ue	False
••	• •	• • •	•••••	
2. P	ut a	chec	k mark (*)	next the Inswer that is most correct.
a	i) A	whee	d d	waks a lot like a
) A	lever	
) B	pulley	
) c	screw	
) D	wedge	
b) W) Which simple machines are like kinds of inclined planes?		
) A	pulley and	wedge
		_	wedge and	
			screw and	
			lever and p	
С	;) S	imple	machines	can do all of these things, <i>except</i>
) A	make force	
) B	make motion	
				amount of work less
) D	THUKE TOICE	e act in a different direction



After You Read NAME:

Crossword Puzzle!



- 1. The force you apply to a simple machine is the _____ force.
- 3. With a rope and a wheel, you can make a
- 5. A machine with only one kind of movement is a _____ machine.
- 6. Force times distance.
- **8.** A spiral staircase is a kind of ______.
- **11.** A change from one place to another.
- **12.** You can make one with a board and a fulcrum.
- 14. One joule per second.
- 15. Wheel and _____
- 17. Something to do work with less effort.
- 18. A push or a pull.

- 2. The force that slows down something that is sliding.
- 3. Ramps are inclined _____
- **4.** How force is measured in the metric system.
- **6.** _____ and axle.
- 7. How far a lever moves the load is the resistance _____
- 9. The simple machine that looks like a piece of cake.
- **10.** The load on a lever is the _____ force.
- **13.** To apply a force is to _____ a force.
- 16. What levers do on their fulcrums.

Pulleys and Wheel and Axles

