## Teacher Guide

## Our resource has been created for ease of use by both TEACHERS and STUDENTS alike.

## Introduction

This 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 understand. Comprised of reading passages, student activities and overhead transparencies, our resource can be used effectively for whole-class, small group and independer work.

## How Is Our Resource

 STUDENT HANDOU Reading passages and tivities (in th reproducible worksheets) mon ap the haj ity of our resource. The reading passages pres important gradeappropriate information and related 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 1 - main types of pages, each with a different purpose an use. A cture Cue at the top of each page shows, at a $g$, what the page is for.

Guide
ation tools for the teacher

## Student Handout

- Reproducible worksheets and activities


## Easy Marking ${ }^{\text {TM }}$ Answer Key <br> - Answers for student activities

## EASY MARKING ${ }^{\text {TM }}$ 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!

$\qquad$

## What Are Simple Machines?

 machine is something that makes work easier by changing the force you apply to do work. A machine can change the amount of force you apply, and it can also change the direction of the force. A simple machine is a machine with only one kind of movement. There are six kinds of simple machines: lever, wheel and axle, pulley, inclined plane, wedge, and screw. Look at the pictures of the six simple machines. It's easy to see how most of these work and how they change the force. We will look at each of these machines later in this book.

It is important to understand that simple mach work easier, but they don't change the you have to do. (That's the bad news.) W t th chines change is the effort you have to $p$ rut. Th 't's he good news.)
For example, you an use a ro over to pull a nail out of a boarar,ou cy ull never pull a nail out with your fingers. Youn have to push the lever down ten inches to pull the nail up one inch. The nail comes right out because the pull on the nail is
 ten times the force of your push on the lever.


Later, we will learn more about what you lose and what you gain when you use a simple machine.

## Crossword Puzzle!



## Pulleys and Wheel and Axles 



