

Unit 1  
MODULE

**2**

**WORK AND ENERGY**

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In this module, students will learn about motion from the perspective of work and energy. The concept of energy is one of the most important concepts in physics. The students have been studying about it since Grade 3 up to Grade 7. They have learned that energy takes many forms; there are different sources and uses of energy; and energy can be transferred.

The module starts with a discussion about work. In the first activity, they will explain whether a situation represents an example of work. It is followed by a discussion about work and energy, and then about kinetic and potential energy. In the second activity, students will construct a toy that demonstrates how a rubber band 'stores' energy. The last activity puts together the concepts of work, energy and power.

**Key questions for this module**

What is work?  
What is energy?  
How are work, energy and power related?

**What is work?**

Figures 1 to 3 in the student's module shows different situations. Ask the students to identify the one doing the work and on which object the work is done.

The students should be able to arrive at the concept that work is done on an object when the force applied to it covers a distance in the direction of the applied force.

# Test Ready Science 8 Teachers Guide

**M Mosston**



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