

K'NEX SIMPLE MACHINES SET

LAB

INTRODUCTION



Westminster College

The K'NEX Simple Machines Series offers opportunities to present the curriculum through teacher-directed, whole class instruction or through independent/small group study at learning stations. These units, used individually or combined as an entire simple machines curriculum, provide an abundance of information and activities to teach about Levers, Pulleys, Wheels and Axles, Gears and Inclined Planes. The breadth of material enables you to select the best lessons to present to your students based on your time and curriculum requirements. The kit includes: 9 K'NEX Simple Machine Piece Buckets, Educator Guide, Student Activity Sheets and Blueprints.

ASSESSMENT ANCHORS ADDRESSED

- S4.A.1.1** Identify and explain the pros and cons to applying scientific, environmental, or technological knowledge to possible solutions to problems.
- S4.A.2.1** Apply skills necessary to conduct an experiment or design a solution to solve a problem.
- S4. A.2.2** Identify appropriate instruments for a specific task and describe the information the instrument can provide.
- S4.C.3.1** Identify and describe different types of force and motion, or the effect of the interaction between force and motion.

PURPOSE

Students will investigate how simple machines make work easier, by creating a series of simple machines according to activity card blueprints. Activity cards include instructions for making the following:

Wheels and Axles: The Spinning Top
Levers: The Catapult
Screws: The Hand Drill
Pulleys: The Sailboat
Gears: The Eggbeater

MATERIALS

For the Class

Activity Cards and Blue Prints
9 Buckets of K'NEX Simple Machines Pieces
*Teacher provides items marked with **

For the Teacher:

Educator Guide Book