

## Simple Machines

# Marvelous Machines: Machines Work Easier

### TEACHER RESOURCE

## Science Online Video: Mechanical Advantage

This no-frills YouTube video from *Science Online* synthesizes key points related to simple machines, such as force, work, load, mechanical advantage. (12:28)

<http://www.youtube.com/watch?v=yfAdmRJDkIc>

### STUDENT RESOURCES

## Simple Machines Interactive

This game from the Museum of Science and Industry in Chicago explores simple machines.

<http://bit.ly/1eDPvdk>

## Engineering Easy as Pie

This interactive game from the Department of Mechanical Engineering, University of British Columbia, leads students through an assembly line at a pie factory.

<http://www.thinkmech.ca/kids/game.htm>

### VIDEOS FOR STUDENTS

## Industrial Engineers Make a Difference

This video, developed by the Industrial Systems Engineering Department at the University of Buffalo, showcases the widely varied work of several industrial engineers on projects ranging from outerspace to automobiles, from chocolate to medicine, from defense systems to amusement parks, and much more! (4:21)

[http://www.youtube.com/watch?v=ZpPDoLX\\_9K4](http://www.youtube.com/watch?v=ZpPDoLX_9K4)

### VIDEOS FOR STUDENTS

## Six Simple Machines

This video from PBS LearningMedia™ and Idaho Public Television gives an overview of six basic simple machines. Requires free registration after trial period. Requires free registration with PBS LearningMedia™. (3:00)

<http://bit.ly/19q07wz>

## Levers of Rapa Nu

This video from NOVA shows how experimental archaeologists and engineers use levers to replicate raising the Rapa Nui statues called moai. Requires free registration with PBS LearningMedia™. (4:48)

<http://bit.ly/JVKfq4>

## The Life of an American Crayon

This video from Crayola takes the viewer on a tour of their crayon factory. Watch how crayons are made on an assembly line from raw materials to the final packaging and shipping out to stores. (2:22)

<http://www.crayola.com/videos/video-category/the-life-of-an-american-crayon.aspx>

## OK Go! Rube Goldberg Music Video

This video from the musical group OK Go! includes an ornate Rube Goldberg machine with many different types of simple machines. (3:53)

<http://www.wimp.com/gomachine/>