HUGK12 Activity

TITLE:

Simple Machine: Lever

PREPAREDBY:

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DCPS STANDARDS:

Enhancement

GOAL:

Students will make and observe examples of levers.

OBJECTIVES:

Students will experiment with relationship between resistance and load.

PREREQUISITE KNOWLEDGE:

Background

Newton's Three Laws:

1) An object, which is moving at a constant velocity or at a state of rest, does not change its state unless a force acts upon it.

2) Acceleration of an object increases, as the amount of force causing the acceleration increases when mass is constant.

3) For every force, there is an equal and opposite force.

ESSENTIAL QUESTION:

How do objects with the same mass or different masses respond to a collision?

LABORATORY MATERIALS:

Rulers

Pencils
Paper clips

DIFFERENTIATING INSTRUCTION:

English Language Limited students should have no problems with this activity.

RATIONALE:

This activity is designed to have students become familiar with simple machines.

RESEARCH ACTIVITY:

Students will make a lever using a pencil and ruler.

EVALUATION AND ASSESMENT:

Students will evaluate differences between load and resistance.