

Lesson Title: Force is With You
Unit: Motion & Newton
Grade Level: 7-8
Estimated time requirement: Three 50 minute classes
Summary (25-50 words): Students develop a PowerPoint presentation in relation to force.
Objectives:
<ul style="list-style-type: none"> ❖ Define force ❖ Compare balanced and unbalance forces ❖ Contrast different types of friction
Content Standards:
<ul style="list-style-type: none"> ❖ 8.3C The student is expected to: represent the natural world using models and identify their limitations ❖ 8.7 The student knows that there is a relationship between force and motion. ❖ 8.7A The student is expected to demonstrate how unbalance forces cause changes in the speed or direction of an objects motion
Assessment:
<ul style="list-style-type: none"> ❖ Unbalanced Forces PowerPoint Rubric
Materials:
<ul style="list-style-type: none"> ❖ “Force is With You” PowerPoint ❖ Student Notes ❖ Digital Still Camera ❖ Imagination
Resources:
<ul style="list-style-type: none"> ❖ Glencoe Texas Science: Grade 8 Textbook
Prior Knowledge/Skills: Prior use of PowerPoint program, Prior use of still camera, Downloading of pictures
Procedures:
<ul style="list-style-type: none"> ❖ View the “Force is With You” PowerPoint presentation and discuss each concept with the students ❖ Fill out the students notes that accompany the presentation ❖ Begin “Unbalanced Forces” assignment
Modifications:
<ul style="list-style-type: none"> ❖ Reduce number of examples and slides for weaker students
Technology Infusion:
<ul style="list-style-type: none"> ❖ Digital Still Camera, PowerPoint program
Cultural Connections:
<ul style="list-style-type: none"> ❖ Allowing students to gain insight into various others interpretations
Family Connection:
<ul style="list-style-type: none"> ❖ Talking to family about types of forces and using the camera at home for examples.