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## Forces and Motion [2nd grade]

Trinity University

Canyon Ridge Elementary School (San Antonio, Tex.)

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## Stage 2: Assessment Evidence

### Performance Task:

- Students will create their own simple machine. (Invention Convention)
- Students identify one thing in life that would be different if we had never discovered this machine. Present to class.
- Test on simple machines
- Students will identify the type of energy each object produces in journal form
- Group experiment called “Electric Breakfast” (static electricity). Students will produce a graph to show results.
- Class will produce a graph to show understanding that sound is created by air passing over the vocal chords. (“A Real Humdinger”)

### Other evidence:

*(quizzes, tests, academic prompts, etc.)*

*note – these are usually included where appropriate in Stage 3 as well)*

## Stage 3: Learning Activities

*(Steps taken to get students to answer Stage 1 questions and complete performance task)*

- Classroom rotations to demonstrate/experience the six simple machines.
- Observe and experiment with different types of energy to identify, “What is work?” (heat, light, sound, electricity, and motion)
- Students will interact with a variety of rough and smooth surfaces that demonstrate different amounts of friction.
- Science Lab sound experiences.
- Students match like sounds to each other.
- Technology activity to review vocabulary.

Self-Assessments:

Related Literature:

Back and Forth by Patricia J. Murphy

Experiments with Magnets: A True Book by Salvatore Tocci

Forces Around Us by Sally Hewitt

Push and Pull by Patricia J. Murphy

Simple Machines by Allan Fowler

What is a Plane? by Lloyd G. Douglass

What is a Pulley? by Lloyd G. Douglass

What is a Screw? by Lloyd G. Douglass

What is Friction? by Lisa Trumbauer

Mickey’s Magnet by Franklin Branley

Mike Mulligan & His Steam Shovel by Virginia Burton

Alexander & the Wind-up Mouse by Leo Lionni

Other Evidence, Summarized

Related Media:

Helen Keller

Bill Nye