

March 16, 2015

# Scientifically Speaking

After much interruption the past few weeks, students are nearing the end of the current unit. Students are improving a great deal on stating a claim and using evidence/proof to support their claim. Students have been bringing me their STEM Fair books and as of Friday they seemed to be confident in their projects. I am extremely proud of both their effort and expressed learning on this time consuming project **For STEM Fair Projects—students must have their project boards at school on Wednesday, March 18 for grading and a practice session for presenting it. Final bird project presentations will begin on March 26 and conclude on March 27.**

## Science—Performance Expectation for Unit 3a:

### Conservation of Energy and Energy Transfer

Students who demonstrate understanding can:

- ♦ Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.

### Disciplinary Core Idea—Enduring Understanding

4-PS3-2: Energy is present whenever there are moving objects, sound, light, or heat. When objects collide, energy can be transferred from one object to another, thereby changing their motion. In such collisions, some energy is typically also transferred to the surrounding air; as a result, the air gets heated and sound is produced. Light also transfers energy from place to place. Energy can also be transferred from place to place by electric currents, which can then be used locally to produce motion, sound, heat, or light. The currents may have been produced to begin with by transforming the energy of motion into electrical energy.

### Crosscutting Concept—Connections to Link All Areas of Science

4-PS3 - 1: Energy and Matter: Energy can be transferred in various ways and between objects.

### Science & Engineering Practices—Skill and Knowledge Essential for all Students to Learn

4-PS3 - 2: Planning and Carrying Out Investigations: Make observations to produce data to serve as the basis for evidence for an explanation of a phenomenon or test a design solution

### This week:

#### Students will

- ⇒ Use Study Island and add to their Blue Ribbon score as time permits
- ⇒ Present STEM Fair projects in classroom and at the Fair
- ⇒ Engineering Project on force and motion

## Upcoming Events:

March 18—STEM Boards must be at school for class presentation and grading.

March 20—STEM Fair in cafeteria during the school day.

March 26 & 27—Bird Projects—final product.

**Homework: Finalize STEM Fair Project.**

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Education is not the learning of facts, but the training of the mind to think. —Albert Einstein

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