



NUTS ABOUT SCIENCE

AFTER SCHOOL SCIENCE!!

FREAKY FUN PHYSICS!! Join us as we investigate Sir Isaac Newton, experiment with forces, make rockets blast off, learn all about air, the power of magnets, light and color!! We'll have some freaky fun in this series!

Who: Students in grades 1st - 4th

When: THURSDAYS, 3:57-5:15 pm: 11/21, 12/05, 12/12, 12/19, 01/09, 01/16, 01/23 (01/30 make-up date if needed)

Where Roosevelt Elementary Art Room

Tuition: \$137 per student; \$102 for student with parent helper, parent helpers must attend all 7 weeks. All materials are included. (A portion of tuition goes to Roosevelt Elementary School)

Registration Steps:

1. Visit our website at: www.nutsaboutscience.com
2. Click on After School Registration
3. Click on Livonia Schools
4. Click on Roosevelt Elementary
5. Follow the registration and payment steps (Credit cards and PayPal accepted)



* Registration opens October 28th and closes November 12th

CLASSES:

- **Awesome Explosions**
- **May the Force be with you!**
- **All About Air**
- **The Plusses & Minuses of Batteries**
- **Magnet Mania**
- **The Sounds of Science**
- **Making Waves with Light & Sound**

*Classes are aligned with MI Science Standards. A full description of each class is on the next page.

Class Information: Students should go directly to the **Art Room** after school.

Snack: Please provide your child with a snack to enjoy at the beginning of the class.

Absences: Email us if your child will be absent. Materials from a missed class will be given to a student the following week. Sorry, no refunds.

Pick-up Policy: Students must be picked up at 5:15 pm from the **Art Room back door**. There is a \$10 late fee if a student is picked up after 5:30 pm. Students who attend **SACC** will be escorted there.

QUESTIONS? Email Lori Shelide at lshelide@livoniapublicschools.org



Freaky Fun Physics

Awesome Explosions! We will perform some awesome explosions in this class. You will make a cork pop out of a test tube, take the Mentos diet-cola challenge, and pop the top off a film canister.

May the force be with you! We begin this class with the amazing Egg Drop! Then, students learn about forces, gravity, motion, speed and inertia by playing with a Reaction Rocket and a Newton's Yoyo.

All About Air: Students will learn the fundamental properties of Air: it occupies space, has weight, and exerts pressure by watching the Egg-in-a-Bottle trick. Saving the best for last, students will build and race an air powered car. Ready, set, blow!

The Pluses and Minuses of Batteries: What are batteries? Students will investigate how batteries are made, why there is a positive and negative end of a battery and how they power our gadgets. We'll make a battery with a potato, pennies and nails that will power an LED light!!

Magnet Mania: Join us as we discover how magnets really work. First, we'll test different items to see which ones are attracted to magnets. Then, we take the paperclip challenge. Saving the best for last, we'll make a homo-polar motor. You'll really be attracted to this one!

The Sounds of Science: What really is sound? We will discover how sound is created, what pitch is, and how to create resonance in this class. We will create a talking cup, a screaming balloon and play with many different sound toys including a kazoo, while we learn all about sound. Science is fun!!

Making Waves with Light and Sound: We explore light and sound waves and how they help communicate messages by creating a musical instrument and an LED Light talkers!!