



NUTS ABOUT SCIENCE

AFTER SCHOOL SCIENCE!



Crazy Chemistry & Freaky Physics - Are you ready to explore the world of Physics and Chemistry with hands-on experiments? The possibilities are endless – chemistry, test tubes, sound, forces and much more! The best part is...We Make Science FUN!

Who: Students in Grades 1st-5th

When: 3:45-5:00 pm on Thursdays; 1/11, 1/18, 1/25, 2/1, 2/8, 2/15, 2/22, 2/29 (Make-up class 3/7 if a class is cancelled due to instructor illness or inclement weather)

Where: Thornton Creek Art Room

Tuition: \$205 per student; \$165 for student with parent helper, parent helper must attend all 8 weeks. All materials are included.

Registration Steps:

1. Visit our website at: www.nutsaboutscience.com
2. Click on the REGISTER button
3. Follow the registration steps on Active Network.
4. Contact Jennifer Price at jenniferp@nutsaboutscience.com with any questions

* Registration opens November 20th at 8 am and closes December 11th at 11:59!

CLASSES :

- Crazy Chemistry
- p to the H...what is pH?
- Colorful Chemistry
- Test Tube Adventures
- Freaky Fun Physics
- The Plusses & Minuses of Batteries
- Magnet Mania
- Sounds of Science

*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 **Art Room** after school.

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

Absences: Email us if your child will be absent. If possible, 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 5:00 pm from the **Front Door**. *There is a \$10 late fee if a student is picked up after 5:15 pm.* Students who attend Kids Club will be escorted there after class.

QUESTIONS? Email Joanna Cline at joanna.g.cline@gmail.com



Crazy Chemistry & Freaky Fun Physics

Crazy Chemistry: In this class we learn what matter is by experimenting with ordinary kitchen items and make tons of Chemistry FUN!

p to the H...What is pH? Students learn what pH is and how liquids can be either acidic, basic, or neutral. We start with the pH rainbow demonstration, then students experiment with color changing liquids with red cabbage juice and litmus paper.

Test Tube Adventures: Students create a density tube, a test tube volcano, and a test tube rainbow with the "world's greatest test tube". Students learn about color, changes in density and the states of matter!

Colorful Chemistry: Students learn about color & ink as we figure out the answer to the question - Is black ink really only black?, then students design their own beautiful Sharpie Pen t-shirt.

Freaky Fun Physics! What exactly is Physics? In this class students are introduced to Physics concepts from the smallest atoms to the largest stars. We explore the many forces and types of energy found on planet Earth.

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'll make a homo-polar motor and a spinning top toy. You'll really be attracted to this one!

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!!

The Sounds of Science: We discover how sound is created, what pitch is, and how to create resonance in this class. Students create a chicken cup, a screaming balloon and play with different sound toys.