



# NUTS ABOUT SCIENCE

AFTER SCHOOL SCIENCE AT NIJI-IRO!

## Crazy Chemistry & Freaky Physics

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

**Who:** Students in Grades 1<sup>st</sup>-6<sup>th</sup> (classes taught in English)

**When:** 3:30-4:45 pm on Thursdays

**Dates:** 1/16, 1/23, 1/30, 2/6, 2/13, 2/20, 2/27, 3/6 (make-up date is 3/13 if a class is cancelled due to instructor illness or inclement weather)

**Where:** Niji-Iro Art Room

**Tuition:** \$210 per student; All materials are included.

### Registration Steps:

1. Visit our website at: [www.nutsaboutscience.com](http://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](mailto:jenniferp@nutsaboutscience.com) with any questions

\* Registration opens November 29<sup>th</sup> at 8 am and closes December 17<sup>th</sup> at 11:59!

## CLASSES :

- Crazy Chemistry
- p to the H...what is pH?
- Colorful Chemistry
- Bubble, fizz, POP!
- May the Force be with you!
- The Plusses & Minuses of Batteries
- Magnet Mania
- 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 **healthy** 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 when they return. Sorry, no refunds.

**Pick up Policy:** Students must be picked up at 4:45pm from the **Front Door**. *There is a \$10 late fee if a student is picked up after 4:55 pm.* Students who attend Himawari will be escorted there after class.

**QUESTIONS?** Email Michele Gradinscak at [michelegradinscak@gmail.com](mailto:michelegradinscak@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, red cabbage juice and litmus paper.
- **Bubble Fizz, POP!** Join us as we learn about the amazing ways scientists are using CO<sub>2</sub> (carbon dioxide) to help keep the environment clean. Then, we perform our own discoveries with CO<sub>2</sub>. We'll begin by making spaghetti dance, then blowing up a balloon without using a breath, and make a CO<sub>2</sub> sandwich!! You don't want to miss this one!!
- **Colorful Chemistry:** Students learn about color & ink as we figure out the answer to the question - *Is black ink only black?* Then students design their own beautiful Sharpie Pen t-shirt.
- **May the force be with you!** We begin this class with the amazing Egg Drop! Then, students learn about forces, gravity, motion, and inertia by creating a magical gravity toy.
- **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!!
- **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 talker!!