

## QUARKS & GLUONS: NATURE OF CHEMISTRY

6th to 8<sup>th</sup> Grades

January 11 – February 15, Fridays

5:30 – 7:30 PM

The nature of this chemistry class gives the students a more in-depth look at the concepts of electrochemistry, and thermo chemistry. Activities will include properties in elements, acids/bases and the math of chemistry all while conducting fun experiments. The students will get to handle diluted acids and bases.

**Class 1: Periodic Table**

**Class 2: Acids and Bases**

**Class 3: Acid-Base Reactions**

**Class 4: Electrolysis Introduction**

**Class 5: Electrolysis**

**Class 6: Thermal Energy and Chemical reactions**

**Instructor(s): Samuel McCullum**

**\$125 + \$25 Material fee**

## TEAM ASSEMBLY

March 19 - April 23

3<sup>RD</sup> – 5<sup>th</sup> Grades, 5:30 – 7:30 PM

March 20 - April 24

6<sup>TH</sup> - 8<sup>TH</sup> Grades, 5:30 PM – 7:30 PM

Fun filled adventures for kids. An introduction to artistic design, practical hands on skills, and communication strategies. Students will learn physics concepts and basic mechanics to prepare for the two major projects. Students will build a working hovercraft. Cardboard pinball machines will use general construction and computer programming.

**Instructor(s): Samuel McCullum**

**\$125 + \$25 Material fee**

Size of each class is limited, so please do not wait to sign up. Register online or in person at: 2967 State Street, Bettendorf, IA 52722, [www.bereskinartgallery.com](http://www.bereskinartgallery.com)

# REGISTRATION FORM

Please complete this registration and permission form, then mail or drop off both with your check payable to: **Bereskin Gallery & Art Academy**

\_\_\_\_\_  
Class Name

\_\_\_\_\_  
Choice#

\_\_\_\_\_  
Student's Name

\_\_\_\_\_  
Birth date (must be 4 years old by 9/15/18)

\_\_\_\_\_  
Allergies/ Special Needs

\_\_\_\_\_  
Parent(s) Name

\_\_\_\_\_  
Phone Number

\_\_\_\_\_  
Emergency Contact (Name & Number)

\_\_\_\_\_  
Street Address

\_\_\_\_\_  
City

\_\_\_\_\_  
State

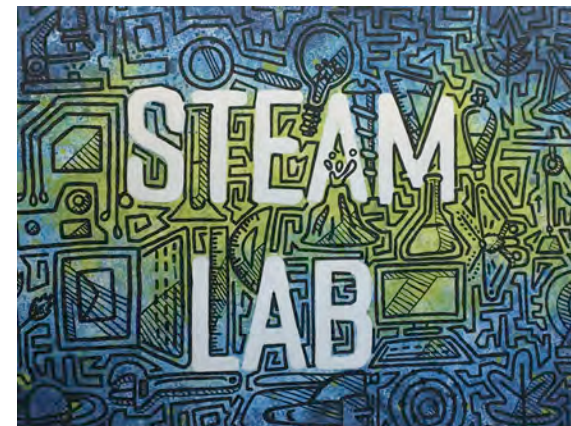
\_\_\_\_\_  
Zip Code

**In case of injury or illness, Bereskin Gallery and Art Academy, LLC &/ Steam On Wheels, LLC has my permission to have administered any medical attention necessary after having attempted to reach me. The undersigned does further release and discharge Pat Bereskin the gallery, or any of the agents / educators, their family, their home and business from any liability whatsoever for any personal injury or property damage sustained by the above named.**

\_\_\_\_\_  
Parent/Guardian Signature

\_\_\_\_\_  
Date

**FEES ARE NON REFUNDABLE**



## Winter 2018-2019



Size of each class is limited, so please do not wait to sign up. Register online or in person at: 2967 State Street Bettendorf, IA 52722

**bereskin**  
GALLERY & ART ACADEMY

## CAN DO CHEMISTRY

Preschool

Dates: January 8 - February 12

Choice 1: Tuesday Mornings,  
10:00-11:30am

Choice 2: Tuesday Afternoons,  
12:30-2:00pm

It's chemistry for beginners! In a great mix of fun and learning, kids will conduct interesting experiments to help understand the basic chemical properties of common substances.

**Week 1: Elementary Elements**

**Week 2: Measurement**

**Week 3: Phases/States of Matter**

**Week 4: Mixing**

**Week 5: Reactions**

**Week 6: Cooking**

Instructor(s): Diane Whiteman & Rachel Squires

Fee: \$125 each 6-week session

## PHYSICS IS FUN

Preschool

Dates: March 19- April 23

Choice 1: Tuesday Mornings,  
10:00-11:30am

Choice 2: Tuesday Afternoons,  
12:30-2:00pm

Join us as we apply basic STEAM principles to introduce physics to our youngest engineers and scientists. We will explore the many forces of nature at work in our everyday world. Each lesson will have lots of fun experiments and activities to explore simple concepts of physics.

**Week 1: Forces**

**Week 2: Simple Machines Part I**

**Week 3: Simple Machines Part II**

**Week 4: Magnets**

**Week 5: Spinning**

**Week 6: Waves**

Instructor(s): Diane Whiteman & Rachel Squires

Fee: \$125 each 6-week session

## IT'S ELEMENTARY! COOL CHEMISTRY

K-2nd Grade, January 10 - February 7

5:30 – 7:30 PM

3rd-6th Grade, February 14 - March 14

5:30 – 7:30 PM

Cool chemistry experiments will provide students with the opportunity to better understand basic chemical properties of common substances.

**Week 1: Elements**

**Week 2: Measurement**

**Week 3: Density**

**Week 4: Colors**

**Week 5: Cooking**

**Instructor: Rebecca Heick**

**Fee: \$125 each 5-week session**

## THE WORLD AROUND US: FROM SOIL TO SPACE

K-2nd March 21 - April 18, 5:30 – 7:30 PM

3rd-6th April 25 - May 23, 5:30 – 7:30 PM

Discover the world around us and see how it shares the secrets of the past and future.

**Week 1: Weather**

**Week 2: Space**

**Week 3: Geology**

**Week 4: Earthquakes**

**Week 5: Volcanoes**

**Instructor: Rebecca Heick**

**Fee: \$125 each 5-week session**

## ELECTRONICS & PROGRAMMING

6<sup>th</sup> – 8<sup>th</sup> Grade

January 7 – February 11, Mondays

5:30 – 7:30 PM

**Week 1: Safety**

**Week 2: Introduction to programming**

**Week 3: Soldering**

**Week 4: Soldering**

**Week 5: Finishing Soldering Project**

**Week 6: Finalize code and Demonstrate**

**Instructor(s): Niketan Mourya & Samuel McCullum**

**Fee: \$125 + \$25 Material fee 6-week session**

## PROTONS & ELECTRONS: ELEMENTARY CONCEPTS OF CHEMISTRY

3rd to 5<sup>th</sup> grades

5:30 – 7:30 PM

January 8 – February 12, Tuesdays

The *Elementary Concepts of Chemistry* is a comprehensive course that introduces the students to fundamental concepts of chemistry like the structure of an atom, elements and compounds, chemical bonding and introduction to chemical reactions and their types. This will be accompanied by fun experiments that the students will be able to experience first-hand.

**Week 1: History of structure of atom**

**Week 2: Arrangement of nucleons & electrons**

**Week 3: What are elements? What are compounds? Why are they different? Lewis structures?**

**Week 4: Dalton, chemical bonding and types of bonds, naming compounds**

**Week 5: Chemistry around us**

**Week 6: Introduction to types of chemical reactions**

**Instructor: Samuel McCullum**

**\$150 + \$25 Material fee 8-week session**

