

QUARKS & GLUONS: NATURE OF CHEMISTRY

6th to 8th 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

3RD – 5th Grades, 5:30 – 7:30 PM

March 20 - April 24

6TH- 8TH 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

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

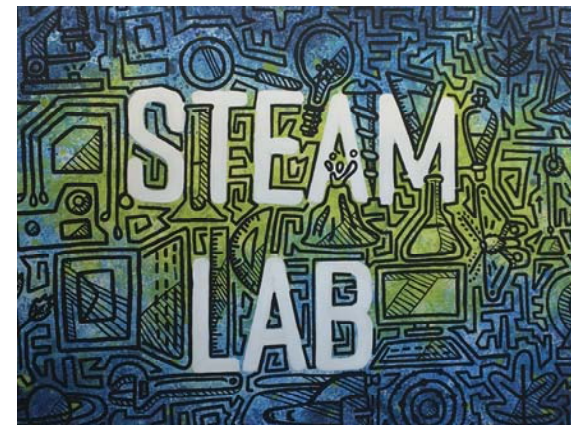
Zip Code

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



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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

6th – 8th 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 5th 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

