

# Winter 2017 Saturday Workshops!

## Winter Break

## Worlds of Wisdom and Wonder

## Robotic Petting Zoo

## Details for Winter 2017

### Buffalo Grove

Meridian Middle School  
2195 Brandywyn

January 21, 28, February 4  
1:30-4:00 p.m.

Grades PreK-7

Tuition:

All 3 Saturdays: \$135

Individual days: \$45 each

**Science and Art:** Can science experiments create art? Can art be found in science? Discover answers as you explore both science and art through creative, hands-on experiments and projects. **(PreK-K)**



**Science Puzzlers:** Investigate unusual scientific phenomena. Discover the wonders of science through hands-on experiments. **(K-2)**

### **MaKey MaKey Makers Space:**

Design, create, and program with MaKey MaKey microcontrollers and all kinds of materials, from egg whisks, tin foil, and cardboard to play dough, fruits, and vegetables. Bring your creativity and imagination! **(3-7)** (\$5/day lab fee)

**Engineering Escapades:** What constitutes a sound design? How much weight can your bridge hold? Can your building withstand an earthquake? How accurate is your catapult? Tackle STEM challenges via hands-on design and building projects **(4-7)** (\$10/day lab fee)



**Art Studio:** Does art ignite creativity in you? Explore a variety of media while experimenting with a range of artistic styles and techniques. Each workshop will focus on a different form of artistic expression. **(1-7)**

**Microbiology and More!** View amazing sights through a microscope and grow your own petri dish culture! Have fun learning about bacteria, viruses, fungi, and parasites, and how advances in sanitation and medicine have changed the world! **(3-5)**

**Lego WeDo Robotics:** Explore principles of engineering and programming. Select from a dozen plans to build robots, such as alligators, birds, or soccer players with Legos, motors, gears, and sensors. Connect your robots to a computer to program actions and sounds. Experienced students may try their hands at designing their own robots. **(K-4)** (\$5/day lab fee)

**Lego Mindstorms Robotics:** Tackle engineering challenges! Construct a robot with motors, gears, wheels, and different sensors attached to a programming brick. Connect to a computer and explore vast programming possibilities. Bring your innovative ideas and be prepared to experiment! **(3-7)** (\$5/day lab fee)

### Arlington Heights

South Middle School  
400 S. Highland Ave.

February 18

1:30-4:00

Grades K-8

Tuition: \$45

**Lego WeDo Robotics:** See Buffalo Grove course description above. **(K-4)** (\$5 lab fee)

**The Jet Engine:** Investigate flight and the science behind the Jet Age! Explore the mechanics of the Jet engine while constructing an innovative 3D model that you can keep! **(4-8)** (\$5 lab fee)



**click HERE to enroll online**

*Aged out of our programs? Contact us about volunteer opportunities!*

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**Joan Franklin Smutny, Founder and Director**



# Winter 2017 Worlds of Wisdom and Wonder

## Barrington

Prairie Middle School, 40 W Dundee Road  
Sundays, Feb 26, Mar 5, 12, 19  
2:00-4:30 . Tuition \$180

### PreK-K: World Class Explorers

*A 2½-hour hands-on imaginative adventure!*

#### Grades K-7:

##### Choose two 75-minute classes:

Art Unlimited (1-7)  
Coding Investigators\* (3-7)  
Creative Writing (1-7)  
Economics, the Stock Market, and You! (3-7)  
Electricity and Play Dough Circuits\* (K-5)  
Geometry: Design, Architecture, and Construction (K-5)  
STEM with SteAm: Moto-Pets\* (1-5)

### STEM with SteAm: Moto-Mania\* (4-7)

*Enroll in all four sessions or select individual days.*  
Classes are 2½-hours. Tuition is \$45 per Sunday.

- February 26: Cable Car
- March 5: Bubble Maker
- March 12: Plane on a Stick
- March 19: Tornado in a Bottle

## Elmhurst

Sandburg Middle School, 345 E St Charles Road  
Sundays, Jan 22, 29, Feb 5, 12  
2:00-4:30 . Tuition \$180

### PreK-K: Science and Art

*A 2½-hour hands-on imaginative adventure!*

#### Grades K-7:

##### Choose two 75-minute classes:

Art Unlimited (1-7)  
Coding Investigators\* (3-7)  
Creative Writing (1-7)  
Electricity and Play Dough Circuits\* (K-5)  
Geometry: Design, Architecture, and Construction (K-5)  
STEM with SteAm: Moto-Pets\* (1-5)

### Engineering Escapades\* (4-7)

*Enroll in all four sessions or select individual days.*  
Classes are 2½-hours. Tuition is \$45 per Sunday.

- January 22: Bridge Building
- January 29: Earthquake-Proof Structures
- February 5: Armoured Catapult
- February 12: Obstacle Course

### Historic Game Simulations (5-10)

Immerse yourself in strategies through playing board games that re-enact history.

## Naperville

Prairie Elementary School, 600 S Charles Ave  
Saturdays, Jan 21, 28, Feb 4, 11  
1:00-3:30 . Tuition \$180

### PreK-K: World Class Explorers

*A 2½-hour hands-on imaginative adventure!*

#### Grades K-7:

##### Choose two 75-minute classes:

Art Unlimited (1-7)  
Coding Investigators\* (3-7)  
Creative Writing (1-7)  
Electricity and Play Dough Circuits\* (K-5)  
Mix, Swish, and Brew (K-5)  
STEM with SteAm: Moto-Pets\* (1-5)

### Engineering Escapades\* (4-7)

*Enroll in all four sessions or select individual days.*  
Classes are 2½-hours. Tuition is \$45 per Saturday.

- January 21: Bridge Building
- January 28: Earthquake-Proof Structures
- February 4: Armoured Catapult
- February 11: Obstacle Course

## Evanston

The Barbereux School, 3333 Culver Street  
Saturdays, Feb 25, Mar 4, 11, 18  
1:30-4:00 . Tuition \$180

#### Grades PreK-2

Two 75-minute classes each week:  
Mix, Swish, and Brew  
Stories and Art: The Caldecott Winners

### STEM with SteAm\* (1-3)

*Enroll in all four sessions or select individual days.*  
Classes are 2½-hours. Tuition is \$45 per Saturday.

- February 25: Moto-Pets
- March 4: Engineering Egg-Stravaganza
- March 11: Three-Wheel Racers
- March 18: Build a Catapult!

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# Worlds of Wisdom and Wonder Courses:

**Art Unlimited:** Pursue your own unique avenues of artistic expression! Discover how the world is a richer place due to the contributions of artists. Create artwork that expresses your muse and the joy of being an artist!

**Stem with SteAM: Moto-Mania:** Explore the principles of physics and engineering while constructing unusual motorized contraptions such as "The Cable Car," "Bubble Maker," "Plane on a Stick," and "Tornado in a Bottle." (\$10/day lab fee)

**Coding Investigators:** Explore innovative approaches to programming in this student-centered class. Each day will offer a variety of coding opportunities: Hour of Code, including Minecraft, Star Wars, Frozen, and Angry Bird versions, Scratch with its possibilities for animations and game design, and Finch robots. The choice is yours! (\$15 lab fee)

**Creative Writing:** Express yourself through writing! Respond to diverse catalysts, such as posters, paintings, books, music, and films, to write free verse poetry and different genres of stories, i.e. fantasy, biographical fiction, fractured tales. A writer is an imaginative thinker and communicator; come and share your inspiration!

**Economics, the Stock Market, and You!** Do you like money and want to make it grow? Play the "stock market" game, where you pit your wits against the real stock market. Form a board of directors and run your own company. Explore principles of micro- and macro-economics.

**Electricity and Play Dough Circuits:** Create your own circuits using conductive and insulating play dough to light LEDs, run motors, and play sound. Use meters and an oscilloscope to study electric current flow. Design and construct creatures incorporating LEDs and sound. (\$15 lab fee)

**Engineering Escapades:** What constitutes a sound design? How much weight can your bridge hold? Can your building withstand an earthquake? How accurate is your catapult? Tackle STEM challenges via hands-on design and building projects! (\$10/day lab fee)

**Geometry: Design, Architecture, and Construction:** Use your geometry skills to design your own city. As the lead architect you will design and create a city infrastructure such as buildings, parks, roads, and more. Use your creativity and imagination to impress the mayor of your town!

**Historic Game Simulations:** Immerse yourself in strategies for winning World War II, conquering ancient Britain, creating a railroad empire, exploring South Sea islands, or building successful world empires through playing board games that re-enact history. Select from a variety of games, such as *Axis and Allies*, *Britannia*, *Empire Builder*, *Age of Imperialism*, *Conquest of Paradise*, *History of the World*, and *Settlers of Catan*.

**Mix, Swish, and Brew:** Create chemical concoctions that pop and fizz, mysterious solutions with curious properties, and slimy substances as you explore chemistry via diverse hands-on experiments.

**Science and Art:** Can science experiments create art? Can art be found in science? Discover answers as you explore both science and art through creative hands-on experiments and projects.

**STEM with SteAm: Moto-Pets:** Design and engineer your own battery-powered motorized pets! Create vibrobots, bristlebots and artbots in this creative class. Let your ingenuity take shape! (\$20 lab fee)

**Stories and Art: The Caldecott Winners:** Why is a book a Caldecott winner? How does art express a story? How does a story inspire art? Explore artistic styles found in the superbly illustrated winners of the Caldecott Medal. Create stories and illustrations of your own.

**World Class Explorers:** Discover wonders on different continents through hands-on activities, literature, and drama. Immerse yourself in a different country each day. Climb a volcano, stare down a kangaroo, build an igloo, and join a safari!

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