

# 2019 WORKSHOPS



## MAKING WITH WIND & SOLAR POWER

**Asia Ward, Recharge Labs**

**January 4, 2019 | 9:00-3:00**

With REcharge Labs, learners will creatively explore wind and solar power with user-created models and activities. This workshop will inspire today's K-12 students, educators, makers, and tinkerers to become the innovative renewable energy leaders of tomorrow by offering effective hands-on activities, engineering design challenges, and lessons.

**Max capacity:** 20 participants

**Registration:** \$150/members, \$250/non-members

## MAKEY MAKEY FUN WORKSHOP

**Brittney Kugler, Museum of Discovery**

**February 18, 2019 | 9:00-3:30**

Delve into the exciting world of coding, engineering and invention literacy with Makey Makey! Explore all of the fun and engaging ways you can investigate conductivity with Scratch coding using this dynamic tool. BYOL (Bring Your Own Laptop)

**Max capacity:** 25 participants

**Registration:** \$50/members, \$100/non-members

## CARDBOARD CREATIONS

**Ben Watson, Museum of Discovery**

**March 14, 2019 | 9:30-3:30**

Cardboard is one of the most versatile and accessible materials for growing Maker skills. By examining a wide variety of examples, we will explore the potential of facilitating cardboard-based activities, regardless of space or budget limitations. Additionally, we will discuss how working with cardboard can open up rich opportunities for developing healthy learning dispositions such as grit, inquiry, problem-solving, and Maker agency.

**Max capacity:** 25 participants

**Registration:** \$75/members; \$125/non-members

## ART & TECHNOLOGY IN STORYTELLING

**Rebecca Grabman, Children's Museum of Pittsburgh, Makeshop**

**May 7, 2019 | 9:30-3:30**

The MAKESHOP at the Children's Museum of Pittsburgh has been perfecting the use of animation technology in education. In this workshop, attendees will become familiar with several methods and techniques for creating animations. Participants will discuss facilitation strategies as well as different lenses that can be applied to the activity to support different learning or engagement goals.

**Max capacity:** 25 participants

**Registration:** \$150/members; \$250/non-members



# 2019 WORKSHOPS



## MAKEY MAKEY FUN WORKSHOP

**Brittney Kugler, Museum of Discovery**

**June 18, 2019 | 9:00-3:30**

Delve into the exciting world of coding, engineering and invention literacy with Makey Makey! Explore all of the fun and engaging ways you can investigate conductivity with Scratch coding using this dynamic tool. BYOL (Bring Your Own Laptop)

**Max capacity:** 25 participants

**Registration:** \$50/members, \$100/non-members

## TAPE ART

**Carrie Beach, Washington Junior High School, Tinkering Lab**

**June 21, 2019 | 8:30-1:00 - NEW DATE**

Take mundane masking tape into a different dimension by twisting, rolling and folding it into awe-inspiring art pieces and sculptures. Learn the step-by-step process it takes to transform this common material into something extraordinary and become inspired to think creatively.

**Max capacity:** 20 participants

**Registration:** \$100/members; \$200/non-members

## SCRATCH BOOT CAMP

**Brittney Kugler, Museum of Discovery**

**July 16, 2019 | 8:30-12:30**

Jump into the world of coding for a hands-on learning experience with the programming language of Scratch. With Scratch, you can program your own interactive stories, games, and animations – and share your creations with others in the online community. We will cover the fundamentals of this language to get you started with block coding. BYOL (Bring Your Own Laptop)

**Max capacity:** 20 participants

**Registration:** \$50/members; \$75/non-members

## CREATE FRAMEWORK & DESIGN THINKING

**Lisa Regalla, Bay Area Discovery Museum, Center for Childhood Creativity**

**July 30, 2019 | 9:00-3:30**

Creativity is hard to define but you know it when you see it. Pulling from the academic fields of education, psychology, and neuroscience, the Center for Childhood Creativity at the Bay Area Discovery Museum has developed the CREATE framework. Across a range of learning experiences, from designing exhibits, to classroom set-up, to curriculum development, these ideas can serve as guiding and foundational principles for all of those experiences. Learn how you can encourage creative problem-solving skills through intentional experiences.

**Max capacity:** 30 participants

**Registration:** \$150/members; \$250/non-members



# 2019 WORKSHOPS



## MAKER FASHION

**Brittney Kugler + Ben Watson, Museum of Discovery**

**September 17, 2019 | 9:00-4:00**

Combining multiple techniques and facets from the Maker world, learners will design, build and display their own unique wearable creation, while diving deep into material exploration. Tinker with the fashion world and explore different tools and skills that can be used in any space or classroom.

**Max capacity:** 30 participants

**Registration:** \$100/members; \$200/non-members

## NEEDLE & WET FELTING

**Brittney Kugler + Pody Gay, Museum of Discovery**

**October 17, 2019 | 9:30-3:30**

Learn two- and three-dimensional techniques in the manipulation of wool during this exploration in textiles. Participants will have hands-on instruction on needle felting, painting with wool, and wet felting to form beautiful works of art.

**Max capacity:** 30 participants

**Registration:** \$100/members; \$200/non-members

## SCRATCH NEXT LEVEL

**Brittney Kugler, Museum of Discovery**

**November 18, 2019 | 8:30-12:30**

This workshop is for you if you have a little experience with Scratch and are ready to take it to the next level. We will explore game design and combine the physical world with the digital world, using micro:bit in conjunction with the Scratch programming. BYOL (Bring Your Own Laptop)

**Max capacity:** 20 participants

**Registration:** \$50/members; \$100/non-members

