STEAM Machine

CLASS CATALOG

ADDICTION AND SUBTRACTION BY NUMBERS
CHILDREN Grades 2, 3
Capacity: 14
Duration: 30 minutes
Hone your addition and subtraction skills while creating a colorful picture.

ANIMAL TRIVIA GAME
CHILDREN Grades 3, 4, 5
Capacity: 14
Duration: 60 minutes
Powerful! Fast! Predator! Make your best guesses to win this game!

ANIMATION
CHILDREN Grades 2, 3, 4, 5
TEENS MS Grades 6, 7, 8
TEENS HS Grades 9, 10, 11, 12
Capacity: 8
Duration: 30 or 60 minutes
Using the iPad Pro and animation apps, learn how to create 2D Animations.

CHARACTER DESIGN
TEENS MS Grades 6, 7, 8
TEENS HS Grades 9, 10, 11, 12
Character designers work in video games, movies, TV, animation, and even comic books and graphic novels! Design and develop characters by creating “model sheets,” which consist of costumes, facial expressions, poses, and a character turnaround.

CODE & GO ROBOT MOUSE
CHILDREN Grades 2, 3, 4, 5
Capacity: 14
Duration: 60 minutes
Explore the science of coding and programming with Colby, the programmable mouse.

CODE BREAKERS
CHILDREN Grades 2, 3, 4, 5
Capacity: 14
Duration: 60 minutes
Have you ever wanted to solve a mystery? Use your detective skills to discover how to read and break different codes, ciphers and other puzzles to help crack the case!
### Digital Illustration

**CHILDREN** Grades 2, 3, 4, 5  
**TEENS MS** Grades 6, 7, 8  
**TEENS HS** Grades 9, 10, 11, 12  
**Capacity:** 8  
**Duration:** 30 or 60 minutes  
Learn how to create illustrations using Sketchbook and Procreate. Use the various tools to design, draw, and color dynamic illustrations.

### Mathemagicians: Geometry

**CHILDREN** Grades 2, 3, 4, 5  
**TEENS MS** Grades 6, 7, 8  
**TEENS HS** Grades 9, 10, 11, 12  
**Capacity:** 14  
**Duration:** 30 minutes  
Explore the magic of math with related stories, activities, and games while learning mathematical concepts. Identify 3D shapes and construct 3D shapes with various materials.

### Mathemagicians: Tallies, Data, and Graphs

**CHILDREN** Grades 2, 3, 4, 5  
**TEENS MS** Grades 6, 7, 8  
**TEENS HS** Grades 9, 10, 11, 12  
**Capacity:** 14  
**Duration:** 30 minutes  
Explore the magic of math with related stories, activities, and games while learning some mathematical concepts. Students use tallies in the retelling of a story. Also, students classify, group, and represent objects/data on a bar graph.

### Multiplication and Division by Number

**CHILDREN** Grades 2, 3, 4, 5  
**Capacity:** 14  
**Duration:** 30 minutes  
Hone your multiplication and division skills while creating a colorful picture.

### Procreate

**TEENS MS** Grades 6, 7, 8  
**TEENS HS** Grades 9, 10, 11, 12  
**Capacity:** 8  
**Duration:** 30 or 60 minutes  
Have you ever looked at a digital illustration and wondered “How did they do that?” Learn tips, tricks, and the steps to create illustration in Procreate.

### Rulers and Measurements: Pentaminos & Catapult (Indoor/Outdoor)

**CHILDREN** Grades 2, 3, 4, 5  
**Capacity:** 14  
**Duration:** 60 minutes  
Combine the previous two listings into one hour-long session.

### Snap Circuits

**CHILDREN** Grades 2, 3, 4, 5  
**Capacity:** 14  
**Duration:** 60 minutes  
Explore the science of electricity and build circuits to complete fun projects.

### Steam Jeopardy

**CHILDREN** Grades 2, 3, 4  
**Capacity:** 14  
**Duration:** 30 minutes  
Flex your STEAM skills through a rousing game of Jr. STEAM Jeopardy.

### Tangram Puzzle Fun

**CHILDREN** Grades 3, 4, 5  
**Capacity:** 14  
**Duration:** 60 minutes  
Learn about tangrams and have fun working together to make a variety of shapes.

### Tie Dye Lite

**TEENS MS** Grades 6, 7, 8  
**Capacity:** 14  
**Duration:** 60 minutes  
Tie dye a shirt using sharpies and rubbing alcohol. When art meets science, you get creative awesomeness. All materials provided, please dress for mess.