

# **STEM PROGRAMMING FOR YOUR ORGANIZATION**

CONTACT:

Margie Wolf, Program Coordinator mwolf@thestemalliance.org

CONTACT US ABOUT SPECIAL PROGRAMMING & EVENTS

# **Program Descriptions**

Program durations vary from 6 - 12 weeks Contact us for pricing and special requests



# **Discovering STEM**

Introduction to Science, Technology, Engineering & Math principals for young scientists in training, designed to tap into critical thinking skills with an emphasis on collaboration, innovation and creativity.

KEY TOPICS: STEM, Biology, Chemistry, Coding, Recycling, Nutrition



#### STEM Ever After

Storybooks come to life with hands-on art and science projects based on classic tales. **KEY TOPICS: STEM, Literature, Art** 



# **Space Exploration**

From young learners to middle schoolers, space is everyone's favorite topic! Choose from three levels of Space Exploration curricula designed to engage, entertain and inspire.

KEY TOPICS: STEM, STEAM, NASA, history, Biology, Astronomy, Physical Education, Nutrition



#### Intro to Robotics

We offer various levels of robotics exploration with hands-on Robotics, bee-bot, and Dot & Dash. **KEY TOPICS: Technology, Robotics, Coding** 



# Stop-Motion

For students who love to tell stories! Become filmakers and learn the cool tricks that make animation fun. **KEY TOPICS: Digital Technology, Applications, Design, Art** 



# **Digital Design**

From stop motion to digital art and design projects, artists will merge their natural creative spirit with the wonders of technology during weekly digital and design and animation projects.

KEY TOPICS: Technology, Design, Art





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## **STEM Superheroes**

Learn about historic inventors and innovators who solved real world problems to become real-life STEM SUPERHEROES!

KEY TOPICS: STEM, History, Art, Architecture, Coding, Physics, Chemistry



#### **PixPro**

How do photographers use cameras and digital tools to tell stories? Have students explore their creativity through photography, while learning the basics of how to use a camera.

KEY TOPICS: Photography, Design, Art



# YESSS - Young Engineers Building Strong, Stable Structures

Engineers will get to work on the most basic challenge of engineering: getting things to stand strong! Bridges, buildings, domes & more. Girls should grab their hardhats too to bring creative learning and fun to this hands-on, high action class.

**KEY TOPICS: STEM, Engineering** 



#### Inside Out

See, touch and explore! This hands-on, introductory anatomy class will help students comprehend biological systems of plants, animals and human function that are sometimes surprisingly similar

**KEY TOPICS: Dissection, STEM** 



# Website Design

Future entrepreneurs and aspiring designers alike will learn the tech skills needed to launch their ideas visually, learning how to structure a site or design an online portfolio.

KEY TOPICS: Digital Technology, Applications, Design, Art



# **Chemistry Chaos**

Students will be able to use chemicals while learning about the science behind reactions, properties, composition, and structure of elements and compounds.

**KEY TOPICS: STEM, Chemistry** 



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#### Intro to Advanced Robotics

Introducing robotics to older learners who have not experienced robotics or coding using SPIKE Prime with more advanced coding challenges.

**KEY TOPICS: Technology, Design, Art** 





#### Girls DO STEM

Fun girls-only workshops designed to empower girls and keep them interested in STEM. Sessions can be tailored to your interests and needs (eg, afterschool, vacation camps, summer programming, etc.) Curriculums include:



Discover what it's like to be a scientist through creative exploration

## Girls DO Tech / Lower Elementary - High School

Learn new skills mixing technology and design in robotics, coding, and more

# Girls DO Engineering / Upper Elementary - High School

Explore collaborative hands-on projects in architecture and design

# Girls DO Math / Upper Elementary - Middle School

Dive into fun, experiential learning to inspire confidence and instill a love of math





# **Tinkering Nights**

These events provide hands-on STEM activities for adults and kids to do together. A great family fun night for schools, PTAs, libraries and even businesses!



#### Available themes include:

- Electricity
- Magnetism
- · Sight & Sound
- Simple Machines



For add-on STEM experiences for your summer program please contact Margie Wolf mwolf@thestemalliance.org







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