



## 2022-2023 Homeschool Classes

### September: Super STEM

Explore how STEM and our favorite superheroes' and villains' powers are connected.

**9/12/22**     **Ages 5-8: The Physics & Chemistry Behind Superpowers**

Learn about the power of magnets, what makes things fly,

**Ages 9-14: Dangerous Superpowers: Ice**

Learn about the chemistry behind some more dangerous superpowers while making nitrogen clouds, shattering frozen flowers, and more.

**Registration Deadline: Monday, September 5, 2022**

**Registration Fees: \$15 per Parent/Child Duo for Members and \$24 per Parent/Child Duo for Non-Members**

**9/19/22**     **Ages 5-8: The Biology & Engineering Behind Superpowers**

Learn how animals, insects, and plants have inspired superheroes and how some superheroes utilize engineering for their "superpowers."

**Ages 9-14: Dangerous Superpowers: Fire**

Learn about physical and chemical changes and explore the chemistry behind fire and combustion.

**Registration Deadline: Monday, September 12, 2022**

**Registration Fees: \$15 per Parent/Child Duo for Members and \$24 per Parent/Child Duo for Non-Members**

### October: Exploring Ancient Egyptian STEM

Step into Ancient Egypt as IMAG premieres the new King Tut exhibit and learn about the ancient civilization through hands-on STEM experiments.

**10/3/22**     **Ages 5-8: Mummies, Pyramids, and Tombs... Oh My!**

Learn about the science behind mummification while making a mummified apple, explore the engineering behind pyramids, and more.

**Ages 9-14: STEM Contributions of Ancient Egypt**

Learn about some of the amazing STEM contributions the Ancient Egyptians developed and discovered- and try some out!

**Registration Deadline: Monday, September 26, 2022**

**Registration Fees: \$15 per Parent/Child Duo for Members and \$24 per Parent/Child Duo for Non-Members**

**10/10/22**     **Homeschool Makers' Club: Egyptian Treasures**

Learn how to use the laser cutter while making a cartouche with your name engraved in hieroglyphics, an Egyptian symbol pendant, and more.

**Registration Deadline: Monday, October 3, 2022**

**Registration Fees: \$15 per Parent/Child Duo for Members and \$24 per Parent/Child Duo for Non-Members**

**10/17/22    Ages 5-8: Archaeological Dig**

Learn how to be an archaeologist, go on a mini dig, and research information about the artifact you find.

**Ages 9-14: Escape from Tut's Tomb**

Complete different challenges based on Ancient Egypt, crack the codes and escape Tut's Tomb!

**Registration Deadline: Monday, October 10, 2022**

**Registration Fees: \$15 per Parent/Child Duo for Members and \$24 per Parent/Child Duo for Non-Members**

**November: STEM After Dark**

Explore the darker side of STEM while learning about the moon and stars, investigating why some things glow in the dark, and learning more about nocturnal animals.

**11/7/22    Ages 5-8: Glow Science**

Learn why some things can glow in the dark while making glow snow, glowing lava lamps, and more.

**Ages 9-14: Exploring Luminescence**

Learn about the different types of luminescence while creating a swirling, glowing luminol experiment, erupting a glowing Mentos fountain, and experimenting with deconstructed glow sticks.

**Registration Deadline: Monday, October 31, 2022**

**Registration Fees: \$15 per Parent/Child Duo for Members and \$24 per Parent/Child Duo for Non-Members**

**11/14/22    Homeschool Makers' Club: Glow in the Dark**

Learn how to use the vinyl cutter while making glow in the dark decals and a glow in the dark t-shirt.

**Registration Deadline: Monday, November 7, 2022**

**Registration Fees: \$15 per Parent/Child Duo for Members and \$24 per Parent/Child Duo for Non-Members**

**11/28/22    Ages 5-8: Exploring the Night Sky**

Learn about the phases of the moon, how to identify different constellations and planets in the night sky, and more through hands-on experiments and special Science on a Sphere shows.

**Ages 9-14: Star Gazers**

Learn about the stars, the life cycle of a star, use a solar scope, and more.

**Registration Deadline: Monday, November 21, 2022**

**Registration Fees: \$15 per Parent/Child Duo for Members and \$24 per Parent/Child Duo for Non-Members**

## **December: Winter STEM**

Conduct hands-on experiments about temperature, states of matter, and more with a winter twist.

### **12/5/22    Ages 5-8: Frozen**

Explore the states of matter and learn about temperature while conducting experiments with regular ice and dry ice.

### **Ages 9-14: Dry Ice Investigations**

Learn about states of matter, physical vs. chemical changes and acid-base reactions while conducting experiments with dry ice.

**Registration Deadline: Monday, November 28, 2022**

**Registration Fees: \$15 per Parent/Child Duo for Members and \$24 per Parent/Child Duo for Non-Members**

### **12/12/22    Homeschool Makers' Club: Snowflakes**

Use our laser cutter and vinyl cutter to create 3D snowflakes, stickers, decals, and more.

**Registration Deadline: Monday, December 5, 2022**

**Registration Fees: \$15 per Parent/Child Duo for Members and \$24 per Parent/Child Duo for Non-Members**

### **12/19/22    Ages 5-8: Winter Engineering Challenges**

Use problem solving skills to conquer winter themed engineering challenges involving winter fortresses, snowmen, and snowflakes!

### **Ages 9-14: Winter Polymers**

Learn about polymers while making Styrofoam cups melt, instant snow erupt out of a beaker, and more.

**Registration Deadline: Monday, December 12, 2022**

**Registration Fees: \$15 per Parent/Child Duo for Members and \$24 per Parent/Child Duo for Non-Members**