



## **MAD SCIENCE WORKSHOPS MEET GIRL SCOUT BADGE REQUIREMENTS!**

Mad Science offers exciting hands-on workshops to help girls explore science!

We come to your location for a 90-minute workshop.

All workshops are \$10.50 per girl (minimum payment for 15 girls is required). Travel fee will apply.

Troops are encouraged to join with other troops.

**To schedule a workshop for your troop:**

**Call Mad Science at (858) 300-2481 or email [mail@madsciencesd.com](mailto:mail@madsciencesd.com).**

### **Brownie Workshop Topics**

#### **Building Art Try-It**

- Discover the strength of pyramids, bridges, and buildings.
- Experiment with structural shapes to see how much weight they can hold.
- Create a marshmallow city and take home your building.
- Design a space for someone with special needs.

#### **Movers Try-It**

- Experiment with aerodynamics and air pressure by making a balloon rocket.
- Learn about Bernoulli's principle and make a pinwheel.
- Create your own windsock.
- Make your own Mad Science Whirlybird Copter.

#### **Science Wonders Try-It**

- Experiment with dry ice and make carbon dioxide bubbles.
- Learn about crystals and grow a crystal garden.
- Explore magnetism and make your own magnetic game.
- Discover static electricity and its "hair-raising" properties.

#### **Space Explorer Try-It**

- Discover constellations and make a star chart to locate them.
- Explore the earth's rotation and make a sundial.
- Create a star maker that brings stars into your room.
- Learn about space suits and design your own.

### **Junior Workshop Topics**

#### **Aerospace Badge**

- Make and fly three different designs for paper airplanes.
- Construct your own Mad Science Sky Hawk glider.
- Watch a rocket launch.
- Build a kite that will soar in the sky.
- Discuss women astronauts and learn about their space missions.
- Learn about dehydrated foods and see what astronauts eat.

#### **Rocks Rock Badge**

- Learn about volcanic eruptions and discuss famous volcanoes.
- Find out how to classify rocks and minerals.
- Pan for minerals and start your own rock collection.
- Discover fossils and make a cast of a dinosaur fossil.
- Examine the many differences found among soil samples.
- See what the earth looks like from the sky.

#### **Science Sleuth Badge**

- Become a science detective and analyze sample fingerprints.
- Learn about crystals and grow your own crystal garden.
- Explore density and make something heavier than water float.
- Use prisms to experiment with light and diffraction.
- Experiment with a tuning fork to learn about sound and vibration.
- Learn how to make your own recycled paper.

#### **Water Wonders Badge**

- Find out how the earth reclaims its water.
- Discuss filtration and find out how drinking water is made safe.
- Discover how water is transported to relieve droughts.
- Examine sea creatures and make a wave modulator.
- Analyze water pollution, ecosystems, and oil spills.
- Explore the differences between fresh and salt water.