

# Girl Scout Science Fair

at STEM Expo  
Saturday, November 11, 2023  
Atlanta Motor Speedway



Calling all future scientists! The Girl Scout Science Fair is an opportunity for Girl Scouts of all ages to share their STEM passions with other Girl Scouts.

Did you complete a cool project to earn a STEM badge this year that you'd like to share? Are you working on a STEM-focused high award that you want to present to a group? Or maybe you did a cool project for school that other Girl Scouts would find interesting? Read through the guidelines below and complete the application by September 20 to apply!

Applications	August 15- September 20, 2023	Tell us your STEM Question (details below), what type of project, if your project connects to a STEM badge or high award project, and your preferred time slot.
Application Approvals	September 25, 2023	The Girl Scouts of Greater Atlanta STEM Team will confirm all submitted projects.
Planning Check In	Week of October 9, 2023	Meet virtually with a GSGATL STEM team member to review your Science Fair project. Specific check-in goals will be provided
STEM Expo Event	November 11, 10:00 AM- 12:00 PM or 1:30-3:30 PM	Please be prepared to arrive for set up 1 hour before your time slot begins with all your materials ready to go!

# Project Types & Themes

## Project Themes

Girl Scouts are on the go for this year's STEM Expo! This year is all about different types of movement. Think about how you get from place to place—planes, trains, and automobiles (plus bikes, boats, buses, and more!). Use this theme to inspire your science fair project. There are three options for projects: presentations, demonstrations, or hands-on activities. Read more about each option below.

## Types of Projects

Girl Scouts can choose between three different types of projects, depending on their age level and experience:

### Presentations

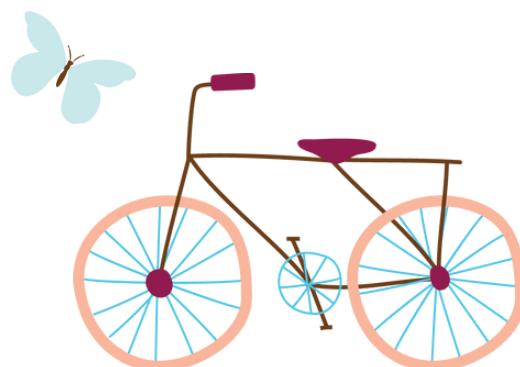
Create a poster board about something you learned

### Demonstrations

Demonstrate an experiment or badge activity

### Hands-on Activities

For older Girl Scout troops only (Cadettes, Seniors, & Ambassadors)



# Details & Logistics

## Details

- Girl Scouts can apply as an individual, small group, or troop.
- Girl Scouts (and a responsible adult) need to be at the presentation for their entire time slot, including the 1-hour set-up time prior to their activity starting.
  - Time slots are 10:00 AM-12:00 PM or 1:30-3:30 PM.
- All activities, collateral, displays, and materials should be produced exclusively by the Girl Scouts, with minimal adult assistance (based on GS level).
- Project expectations will reflect the Girl Scout's level.
- Girl Scouts and troops are responsible for providing all materials and supplies. (Grants are available for Juliette Girl Scouts, some materials may be available from Council.)
- Projects can be part of a High Award project! Your project could qualify for a Bronze Award, or be a component of a Silver or Gold Award.

## Logistics

- Girl Scouts must be accompanied by an adult (parent, guardian, or Troop Leader) during their time at the Science Fair and STEM Expo.
- Each project should fit on a single 6-foot table (which will be provided)
  - Hands-on activities will be given a second table to accommodate visitors.
- Avoid super messy materials (no slime, glitter, liquid glue, etc.)
- Each project should be ready to see about 100 guests (Girl Scouts and parents) during their time slot. This includes having materials for 100 guests to do activities.
- Approved Girl Scout projects will receive free tickets to the STEM Expo for all Girl Scout participants and 1-2 adults (depending on group size)
  - *STEM Expo tickets are a \$27 value and include admission to a full day of hands-on STEM activities for Girl Scouts!*



# Topics & Questions

## Topic Guidance

- Science fair topics must be related to a STEM topic (science, technology, engineering, and/or math).
- Preference will be given to topics that relate to our theme of “Girl Scouts on the Go.”
- Look at ways to utilize things you've already learned, either in school or Girl Scouts:
  - School science fair projects
  - Girl Scout badges you earned
  - Books you have read recently
  - Girl Scout High Award projects



## STEM Questions

- Each project should have a “STEM Question” that inspires it.
- A STEM Question is a question about science or the world that sparks curiosity or inspires you to learn more.
- Start with areas and topics you are already curious about. Examples:
  - You love to hike and are curious about a giant spiderweb or brightly-colored mushroom.
  - You love to stargaze at night and are curious about space travel
  - You dance and are curious about how your muscles work
- Think about things you encounter every day and questions you might have about them. Examples:
  - How do airplanes fly?
  - Why do train tracks have two rails?
  - Who invented roads?
  - Why are seat belts important? How do we know they are safe?



# Presentations

Create a presentation to share your STEM knowledge with other Girl Scouts! Think about a STEM question you are curious about. Do some research on this question and present your findings.

- Create a poster board (tri-fold or stand-alone) with information about your topic, including:
  - Your STEM question.
  - What you learned or discovered about it (through research, an experiment, completing a badge, or talking to an expert).
  - People (especially women) connected to the field.
  - Why you wanted to learn more or why you were interested.
- Rehearse a 2-3 minute “elevator pitch” about your presentation that includes:
  - Your STEM question.
  - What you discovered about it.
  - Why you chose it as your topic- what inspired you?



# Demonstrations

Prepare a demonstration to share a fun STEM experiment or something you made with other Girl Scouts! Think about a cool experiment, demonstration, or piece of technology you've seen, research the science behind it, and learn how to replicate it at home.

- Create a poster board (tri-fold or stand-alone) with information about your topic, including:
  - Your STEM demonstration, experiment, or piece of technology.
  - How you recreated it on your own.
  - What you learned or discovered about it (the science behind it.)
  - How it is part of science in the “real-world?” (What scientific fields use these scientific principles?)
  - People (especially women) connected to the field.
  - Why you wanted to learn more or why you were interested.
- Rehearse your demonstration
  - How will you do your demonstration for an audience? (Make sure it only takes 3-5 minutes.)
  - What materials will you need and how you clean up/reset between each group visiting?
  - How you can explain the scientific principles at work for different ages of Girl Scouts?

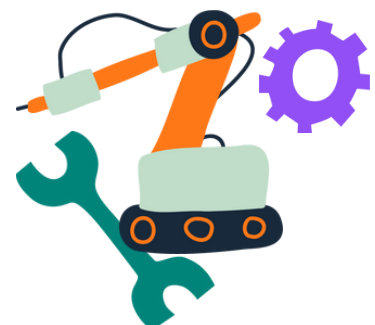


# Hands-On Activities

For troops/groups of Cadettes, Seniors, & Ambassadors only

Bring a hands-on STEM activity to the Girl Scout Science Fair! Cadettes, Seniors, & Ambassadors can plan their own hands-on activity, learn about the principles at work, and inspire other Girl Scouts to get excited about STEM!

- Create a poster board (tri-fold or stand-alone) with information about your topic, including:
  - Details about your hands-on activity.
  - Your STEM question that your activity helps to explore.
  - What you learned or discovered about it (the science behind it).
  - How is it part of science in the “real-world?” (What scientific fields use these scientific principles?)
  - People (especially women) connected to the field.
  - Why you wanted to learn more or why you were interested.
- Rehearse leading a younger Girl Scout through activity.
  - How you’ll do your activity with Girl Scouts (3-5 minutes).
    - How will you show Girl Scouts to do the activity? Can younger Girl Scouts do all of the steps? How will you help them?
  - What materials you’ll need and how you clean up/reset between each group visiting.
  - How can you explain the scientific principles at work for different ages of Girl Scouts?



# Ready to Apply?



Use the link below to apply. Parents/Troop Leaders and Girl Scouts should complete this application together. You'll need to know the following information:

- Who you'll be working with (independently, with a small group, or with your troop)
- What type of project? (presentation, demonstration, or hands-on activity)
- Your STEM Question
- A brief description of your project
- If your project connects to a Girl Scout Badge or High Award project
- Your preferred time slot at STEM Expo
  - November 11, 2023: 10:00 AM-12:00 PM or 1:30-3:30 PM

[Apply Here!](#)

