

Girl Scout Science Fair

Saturday, January 24, 2026
@ STEM Expo



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 December 12, 2025 to be included!

Girl Scouts can prepare a presentation, demonstration, or hands-on activity and present it at STEM Expo. This is also a great opportunity for Girl Scouts to share their High Awards projects, or work towards earning their Community Action Leadership Awards.

This packet provides details about this experience, including:

- Details & Logistics
- Project Themes & Ideas
- Specific Project Types & Requirements
- How to Apply & Timeline

All questions can be directed to the STEM team at STEM@gsgatl.org.

**Applications due by
December 12, 2025!**

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. (Some materials may be available from Council.)
- Projects can be part of a High Award project, or help you earn your Take Action or Global Action 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 8-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!*



Project Themes

STEM Expo 2026 will celebrate a few different themes and topics in STEM! If you need some direction with your project, use this inspiration as a starting place. If you already have an idea you are curious about, you're welcome to pursue it!

Remember, all projects must be related to STEM (Science, Technology, Engineering, and Math) in some way. With a bit of creativity, many topics connect to STEM!

Themes

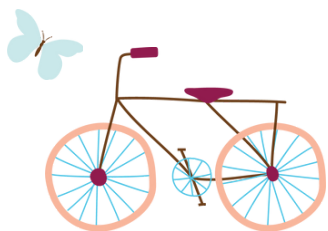
STEM Expo 2026 will celebrate these topics in STEM:

- Robotics! How do robots move, work, help us to do different jobs, and help us stay healthy. Think about building and/or programming robots, robots you've seen in the news or in class, or robots that do interesting and unique things.
- Health! Staying healthy means different things to different people. You might explore different kinds of movement (sports, yoga, or exercise), nutrition and healthy food, mental health, or health equity (ensuring everyone has equal access to health-related things in their community).
- Changes in Technology! This is the 15th anniversary of STEM Expo. How has technology changed in the last 15 years? What were other Girl Scouts doing 15 years ago?

Getting Started

Getting started can be the hardest part! After reviewing the theme ideas above, turn on your curiosity and see where it takes you! Below are some helpful hints:

- Look at ways to utilize things you've already learned, either in school or Girl Scouts:
 - School projects or topics you enjoyed
 - School science fair projects
 - Girl Scout badges you earned or would like to earn
- Check out a few books from the library about STEM topics that fit our themes.
- Research inspirational women in STEM.



Project Types

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)

In addition to projects specific to the Girl Scout Science Fair, we welcome projects that connect to the Highest Awards and Leadership Awards!

High Awards Projects

Present your Bronze, Silver, or Gold Award project with a STEM theme! Projects may be complete OR still in progress.

Community Advocacy Awards

Utilize the Girl Scout Science Fair as an entry point to earn your Take Action or Global Action Leadership Award

Details about each type of project and requirements are on the following pages. Questions? Reach out to us at STEM@gsgatl.org.

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 are robots built?
 - How do your muscles move your body?
 - What kinds of scientists study our brains and how they work?
 - How do robots help us explore space?
 - What kinds of technology helps people with Type 1 Diabetes stay healthy?



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?

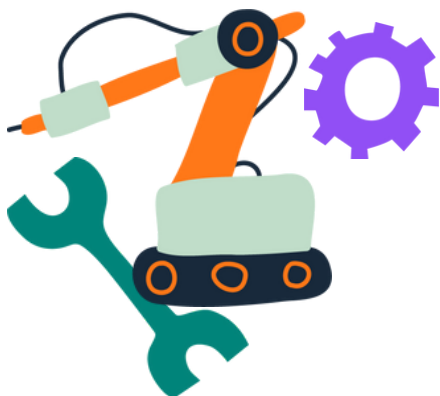


Hands-On Activities

For Troops/groups of Older Girl Scouts (Cadettes, Seniors, and 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?



High Awards Connections

Completed High Award Projects

Have you recently completed a Bronze, Silver, or Gold project related to STEM? Join the Girl Scout Science Fair to show it off!

Create a poster board (tri-fold or stand-alone) with information about your High Awards project, including:

- What inspired you to pursue this project?
- What community problem are you addressing?
- What did you do, and what impact did it have?
- What organizations did you work with? How was your project sustainable?

Rehearse a 2-3 minute “elevator pitch” about your project to present to guests.
Optional: include an example of your project.

In-Progress High Awards Projects

Are you working on a STEM-focused Bronze, Silver, or Gold Award Project but need a way to make it sustainable? By presenting at the Girl Scout Science Fair, you can “educate and inspire” others at STEM Expo!

Create a poster board (tri-fold or stand-alone) with information about your High Awards project, including:

- What inspired you to pursue this project?
- What community problem are you addressing?
- An “action step” others can take to contribute to your project

Rehearse a 2-3 minute “elevator pitch” about your project to present to guests.
Optional: include an example of your project OR a take-away flyer for guests.

Leadership Awards Connections

NEW THIS YEAR! Earn your Take Action or Global Action award, utilizing the Girl Scout Science Fair to support your experience.

Turn your passions into action by making change locally or globally. The Take Action award and Global Action award are available to Junior, Cadette, Senior, and Ambassador Girl Scouts who want to turn their passion into action! Pick your favorite STEM badge and use it as inspiration to create meaningful impact in your community. Many issues affect your world, both close to home and far away-focus on one that matters most to you.



- Take Action award: Team up to identify a local issue, understand what's behind it and who's already working on it, and create a lasting solution.
- Global Action award: Explore how communities worldwide experience similar issues, then make a global connection by applying what you learn to your project.

Bonus: earning one Community Advocacy award opens the door to the Highest Awards. Once you earn this award, you've fulfilled the prerequisite and are ready to start your Bronze, Silver, or Gold Award.

First, research the Community Advocacy Award that best fits your Girl Scout level, goals, and interests. Then, use the tips below to tie it into the Girl Scout Science Fair!

Leadership Awards Connections

Community Advocacy Award Science Fair Connections

Identify a Community Issue

As your Girl Scout/s are thinking about a community issue, start with STEM!

- What STEM badges did you earn this year?
- What STEM issues are you hearing a lot about?
- How do you encounter STEM in your daily life?
- How have you seen STEM making the world a better place?

Brainstorm Project Ideas

Think about solutions to your project that can incorporate STEM!

- How are others already helping in your community, and do they incorporate STEM into their solutions?
- What talents do YOU have that relate to a STEM topic?
- Could technology help to solve your community issue?
- How can you use engineering to build something?

What is STEM?

Science
Technology
Engineering
Math

STEM elements can be found in unexpected places! Think about how STEM connects to the outdoors (or the environment), health, sustainability, art and music, sports, and more!



Leadership Awards Connections

Prepare your Presentation

The Girl Scout Science Fair is an opportunity to educate and inspire others to contribute to your project. It also is a way to celebrate and share the story of your project and why it matters!

Create a poster board (tri-fold or stand-alone) with information about your Community Action Awards project, including:

- What inspired you to pursue this project?
- What community problem are you addressing?
- An “action step” others can take to contribute to your project

Rehearse a 2-3 minute “elevator pitch” about your project to present to guests.
Optional: include an example of your project OR a take-away flyer for guests.



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, High Award project, or Community Action Award
- Your preferred time slot at STEM Expo
 - January 24, 2026: 10:00 AM-12:00 PM or 1:30-3:30 PM

Applications	November 1, 2025- December 12, 2025	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	December 15, 2025	The Girl Scouts of Greater Atlanta STEM Team will confirm all submitted projects.
Planning Check In (optional)	Week of January 9, 2026	Meet virtually with a GSGATL STEM team member to review your Science Fair project. Optional!
STEM Expo Event	January 25, 2026 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!

[Apply Here:](#)

