

Brownies Toolkit

About Girls Get STEM: Unleash Your Inner Scientist

Girl Scouts of the USA has unleashed a new partnership with Discovery Education to spark girls' interest in STEM and help them unleash their G.I.R.L. (Go-getter, Innovator, Risk-taker, Leader)™ potential. Girls Get STEM: Unleash Your Inner Scientist provides educators and Girl Scouts troop leaders with standards-aligned curriculum that aims to address gender equity in STEM education across the country through a series of girl-led, girl-tested, and girl-approved resources for students in grades 2–5.

Quick Facts

- **Program Name:** Girls Get STEM: Unleash Your Inner Scientist
- **URL:** <https://www.girlsleadstem.com/educator-resources>
- **Audience:** Girl Scouts in grades 2-5

About the Girls Get STEM Activities

The Girls Get STEM activities below were created to bridge national science and engineering standards into the Think Like a Citizen Scientist Journey. This can support you as a troop leader in recruiting girls and establishing relationships with educators. In addition to our national standards, non-cognitive skills are factors that predict success in school beyond content knowledge and academic skills. In education, we refer to some of the most popular learning strategies in today's workforce as the “4Cs” for 21st Century Learning. They include critical thinking, communication, collaboration, and creativity. Each of the activities created in this partnership highlight and help develop these important skills.

The table below provides an overview of each Girls Get STEM activity, how to include this activity in your current Think Like a Citizen Scientist Journey, and identifies the 21st Century Learning Skill featured.

Critical Thinking

Reflection Activity: Critical Thinking

Timing: Approximately 30 minutes, but tailor this activity to fit your troop's needs!

Focus Area: Critical thinking involves all of the skills we use to make our own decisions and form our own independent thoughts. It's important to begin developing critical thinking skills at an early age, and this activity does just that!

Activity Overview: Girls use dice to reflect on the status of their Take Action project by answering a key question that corresponds with each number rolled.

Where can this activity fit in?

- **Take Action Project:** Use this activity at any point during Think Like a Citizen Scientist Pt. 4 and Pt. 5 for girls to reflect on the progress of their project.
- **Any Time:** Develop your own list of six reflection questions that pertain specifically to your troop's project, badge, etc. to use this activity at any time outside of a Take Action project!

Materials:

- One piece of chart paper or poster board
- Tape or glue
- Dice, at least one
- **Reflection Questions** handout
- **Optional Prepare Ahead:** Develop your own list of six reflection questions that pertain specifically to your troop's project, badge, etc. to use this activity at any time outside of a Take Action project!

Steps:

Brownies will use dice to reflect on the status of their Take Action project by answering a key question that corresponds with each number rolled.

Start by asking for a volunteer to roll the dice before you read the corresponding question from the **Reflection Questions** handout. Divide into pairs or small groups of girls to discuss the answer.

After girls have had a minute to discuss in small groups, discuss the reflection question together as a troop.

Repeat by asking other volunteers to roll the dice again until you've discussed all of the reflection questions.

Critical Thinking

Reflection Questions

1. How or when is your troop good at working together?
2. How or when could your troop work together even better?
(Don't name names...instead think about what *everyone* could do!)
3. What has your troop accomplished that you are proud of?
4. How will your Take Action project make a difference in people's lives?
5. What is one thing your troop could do to make your Take Action project have an even bigger impact?
6. What do you hope others will learn from your Take Action project?