BROWNIE
Cybersecurity Badges

BADGE SERIES OVERVIEW:

In the Cybersecurity badge series, Brownies explore how to practice real life safety rules in the cyber world. They do hands-on activities to find out how computers communicate so they can see how messages can be compromised online. They find out how to protect their identities and why it's important not to share their private information. They investigate what's real or fake online and what a cyber attack looks like.

Follow the Badge Progression:

The Cybersecurity badges were designed to be earned in a specific order. The badge progression is:

1 **Cybersecurity Basics**
2 **Cybersecurity Safeguards**
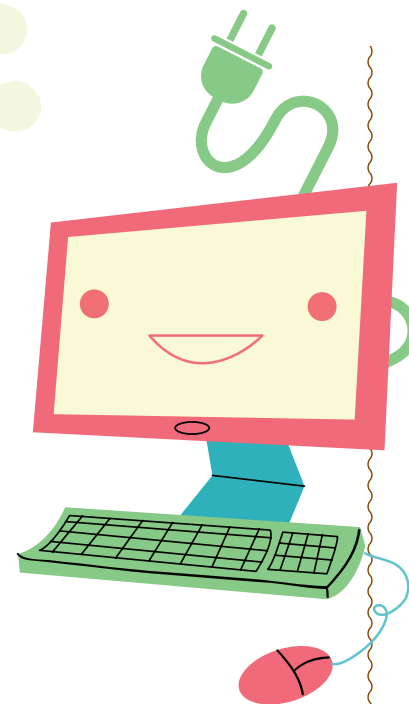**3** **Cybersecurity Investigator**

Enhance the Experience: The Cybersecurity badges were designed to be "unplugged," so you don't need to have computers for girls to earn them. However, if you have access to computers, tablets, smartphones, and the internet, feel free to have girls use them to complete the badge steps where appropriate.

Use the Talking Points (But Make Them Your Own): In each session, you'll find suggested talking points under the heading "SAY." Some volunteers, especially new ones, find it helpful to follow the script. Others use the talking points as a guide and deliver the information in their own words. Either way is just fine.

Be Prepared (It's What Girl Scouts Do!): Each meeting includes a "Prepare Ahead" section that includes a materials list and what kind of set-up is required. Read it in advance so you have enough time to gather supplies and enlist help, if needed.

Use Girl Scouts' Three Processes: Girl-led, learning by doing, cooperative learning: These three processes are the key to making sure Brownies have fun in Girl Scouts and keep coming back.

"Learning by doing" and "cooperative learning" are built into this badge, thanks to the hands-on activities and tips. Remember to keep the meetings girl-led so you can help create an experience where Brownies know they can make choices and have their voices heard.

Leave Time for the Closing Ceremony: If Brownies are having fun with an activity, you may be tempted to skip the Closing Ceremony so they can keep going, but the Closing Ceremony is absolutely key to their learning. Here's why:
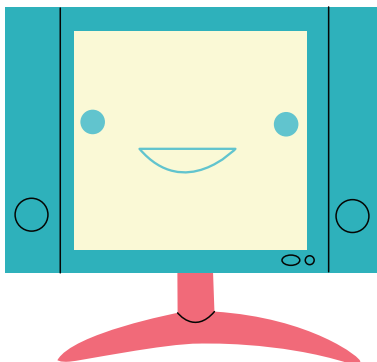
When Brownies leave a meeting, they'll remember how much fun it was to do an activity, but they may not realize what its relationship to cybersecurity was, unless you tell them.

That's why the Closing Ceremony is so important. It's where you can connect the dots for Brownies by:

- *Pointing out how real-world safety rules are just as important to practice when they use computers and other devices.*

- *Letting them know that they have what it takes to continue exploring ways to keep safe in the cyber world.*

Tell Your Troop Story: As a Girl Scout leader, you're designing experiences that Brownies will remember their whole lives. Try to capture those memories with photos or videos. Brownies love remembering all they did, and it's a great way for parents to see how Girl Scouting helps their Brownies!

And please do share your photos and videos with GSUSA by emailing them to STEM@girlscouts.org (with photo releases if at all possible!).

To Prepare for the Meetings:

Before each meeting, you'll find an Overview, notes to Prepare Ahead, and a Materials List, all specific to that meeting.

Go over words Brownies can learn. In the Prepare Ahead section for each meeting, you'll see a list of words Brownies may or may not know and how to define them. You can find a full list of vocabulary for the badges in the **Brownie – Cybersecurity Glossary.**

Before each meeting, read through the meeting plan and any meeting aids. This will help you get familiar with the flow before each meeting.

Handouts specific to the meetings are listed in the Prepare Ahead section of each meeting under Meeting Aids. **In addition, the following handouts are available in the Meeting Aids for every meeting:**

- **Brownie Cybersecurity – Materials List:** Each meeting has its own materials list. However, if you like to do all your supply shopping at one time, use this handout. It includes all materials needed for all of the Brownie Cybersecurity badges.
- **Brownie Cybersecurity – Glossary:** This is a list of words introduced in these badges with definitions.

Gather materials. Prior to each meeting, gather materials for the meeting's activities. Review the materials list to see what you already have. See if there are items you can ask girls to bring to the meetings.

Cybersecurity BADGE BREAKDOWN

CYBERSECURITY BASICS: MEETING 1

1. **As Girls Arrive** Safety Rules
2. **Opening Ceremony** Welcome to Cybersecurity
3. IT Game Show
4. Tech Scavenger Hunt
5. Layers of Security
6. **Closing Ceremony** Flash Chat

- Brownies come up with safety rules they use in their everyday lives.
- They play a game show to explore how they use technology.
- They do a scavenger hunt to find out how much their devices support their daily functions.
- They protect a castle to find out what layers of security means.

CYBERSECURITY BASICS: MEETING 2

1. **As Girls Arrive** Message Packets
2. **Opening Ceremony** Packet Share
3. Cybersecurity Safety Poster
4. Internet Relay
5. **Closing Ceremony** Badges

- Brownies create a message packet by separating a message into index cards. Then they deliver the packet to a friend to read.
- They put together poster presentation of cybersecurity safety rules.
- They do an internet relay race to understand how computers deliver messages.
- They receive their Cybersecurity Basics badge.

CYBERSECURITY SAFEGUARDS: MEETING 1

1. **As Girls Arrive** Make My Prints
2. **Opening Ceremony:** Welcome to Cybersecurity Safeguards
3. Create My ID
4. Share Board
5. Bag It
6. **Closing Ceremony** Flash Chat

- Brownies place their fingerprints on a sheet to examine them and find out how they are part of their identity.
- They find out what makes up their identity.
- They explore what is information about them is private and public.
- They identify their private information and place it inside a paper bag.

CYBERSECURITY SAFEGUARDS: MEETING 2

1. **As Girls Arrive** Paper Trail
2. **Opening Ceremony** Shred It!
3. Two Truths and a Lie
4. Cybersecurity True or False
5. **Closing Ceremony** Badges

- Brownies put their information on paper to find out what it means to create a trail.
- They find out why it's important to destroy or shred their private information.
- They play a game of Two Truths and a Lie to explore trustworthiness.
- They play a True or False game about cybersecurity rules.
- They receive their Cybersecurity Safeguards badge.

CYBERSECURITY INVESTIGATOR: MEETING 1

1. **As Girls Arrive** Photo Picks
2. **Opening Ceremony** Be a Cybersecurity Investigator
3. Code Breaker
4. Spot the Real Deal
5. Digital Trail Game
6. **Closing Ceremony** Flash Chat

- Brownies select images from magazines to find out how they might be altered or fake.
- They create and break a message using code.
- They look at two images that seem the same and spot the differences.
- They play a digital trail game to discover how information they put online stays online.

CYBERSECURITY INVESTIGATOR: MEETING 2

1. **As Girls Arrive** Worm Wise
2. **Opening Ceremony** Privacy Review
3. Telephone Disruption
4. Digital Germs
5. **Closing Ceremony** Badges

- Brownies find out about computer worms.
- They play a game of telephone to find out how cyber attacks can impact communication.
- They play a game to explore how malware spreads.
- They receive their Cybersecurity Investigator badge.

Badge Series and Meeting Length

- This series of badges has been designed to fit into six 75–85 minute troop meetings.
- There is no snack time scheduled in these meetings, but you can add 15 minutes of "wiggle room" for snacks or activities that run long.
- The times given for each activity may be different depending on how many girls are in your troop. Prior to each meeting, review the activities and time allotment to determine how much time your troop will need to complete the activities. You can adjust times for each activity as needed.
- Give Brownies 10- and 5-minute warnings before they need to wrap up the last activity so you'll have time for the Closing Ceremony.

Get Help from Your Family and Friends Network

Your Friends and Family Network can include:

- Brownies' parents, aunts, uncles, older siblings, cousins, friends, etc.
- Other volunteers who have offered to help with the meeting.

Ask your Network to help:

- Bring supplies or other materials for the meetings.

Award Connection

Girls earn three badges:

- Cybersecurity Basics
- Cybersecurity Safeguards
- Cybersecurity Investigator

*(**Note to Volunteers:** You can buy these awards from your council shop or on the Girl Scouts' website.)*