



Your Senior Badges



Earning badges is a great way to start new hobbies, explore dream careers, or try something new for the pure fun of it! These badges have been designed especially for your level—so they’re sophisticated, interesting, creative opportunities to learn skills and dig into ideas that are relevant to you. There’s no worrying about grades or needing to become an expert. Unlike almost everywhere else in your busy life, earning a badge is a chance to try something new simply because you think you’ll enjoy it. Of course, there’s another exciting purpose to the badge process—you never know who you’ll meet, what ideas will inspire you, or what new passions or talents you’ll uncover. You can be positive of one thing, however: You’ll learn a truly useful skill along the way.

Read on for tips about how to get the most out of your badges.



Choosing a Badge

Pick badges based on what sounds like fun or gives you a chance to build a skill you've always wanted to have. Here's how each badge is set up.

TIPS BEFORE TAKEOFF:

These important bits of information give insight into how the badge is set up and how the steps work together. They might also include things you need to consider before you start, so read them carefully.

STEPS: Each badge has five steps. Complete all five steps to earn the badge.

PURPOSE: This sentence tells you what skill you'll know once you've earned the badge.



Science of Style

Imagine farming worms to make raw silk, engineering a biodegradable fabric, or using chemistry to develop a cover-up that hides and heals acne scars. Fashion and beauty are glamorous businesses, but it's the science behind these industries that makes their products cutting edge and desirable. In this badge, use the science of style to create—and imagine—your own products.

Steps

1. Test skin care and makeup
2. Examine the science behind fabrics and accessories
3. Explore the science of perfumes and perfume
4. Investigate the sociology of style
5. Formulate future style

Purpose

When I've earned this badge, I'll know the science behind makeup, perfume, fashion fabrics, and skin care products.

CHOICES: Each step includes three choices for how to complete it. You only have to do one, so pick the choice that sounds the most intriguing, the most fun, or the one that will require you to “stretch” a little. When you're finished, check the box next to the choice you've done. If you find that you're really enjoying the activities—maybe you've found a new hobby or career interest—do as many choices as you want.

Note: Cookie Business badges are focused on one thing—learning to run a business during the Girl Scout Cookie sale—so they offer just one choice for each step.



Classic Collages

Tips Before Takeoff

The first four steps are designed to help you build skills for the trip you'll take in the next step. If you've already chosen where you're going—especially if it's longer than the one-night midweek for the badge—use the steps to guide you.

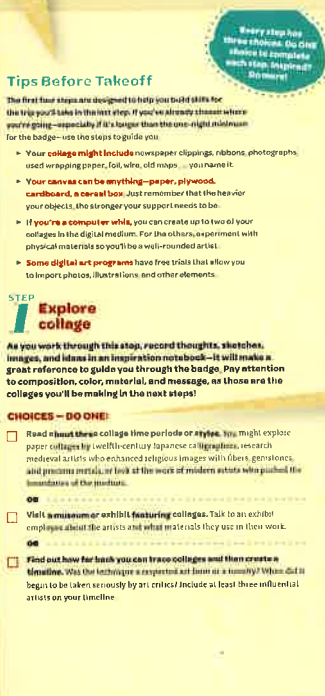
- Your collage might include newspaper clippings, ribbons, photographs used wrapping paper, foil, wire, old maps, or you name it.
- Your canvas can be anything—paper, plywood, cardboard, a cereal box. Just remember that the heavier your objects, the stronger your support needs to be.
- If you're a computer whiz, you can create up to two of your collages in the digital medium. For the others, experiment with physical materials so you'll be a well-rounded artist.
- Some digital art programs have free trials that allow you to import photos, illustrations and other elements.

STEP 1 Explore collage

As you work through this step, record thoughts, sketches, images, and ideas in an inspiration notebook—it will make a great reference to guide you through the badge. Pay attention to composition, color, material, and message, as those are the collages you'll be making in the next steps!

CHOICES—DO ONE!

- Read about these collage time periods or styles. You might explore paper collages by 17th-century Japanese calligraphers, research medieval artists who enhanced religious images with fibers, gemstones, and precious metals, or look at the work of modern artists who pushed the boundaries of the medium.
- Visit a museum or exhibit featuring collages. Talk to an exhibit employee about the artists and what materials they use in their work.
- Find out how far back you can trace collages and then create a timeline. Was the technique as respected art form as a hobby? When did it begin to be taken seriously by art critics? Include at least three influential artists on your timeline.



All About GLUE

Not all glues are created using glue that dries in glue that is sure to be...

For lighter items, such as paper, try:
A glue stick. Take care to lay your paper flat in order to avoid bubbles. Glue that promises instant grab and a clear and fast dry.

For medium-weight items, such as cardboard, try:
An adhesive alternative glue and sealing product.

For heavier items, such as fabric, try:
A thick craft glue.

To last forever, try:
Archival glue, which comes in stick, adhesive, and liquid forms.

Through our history, artists have learned to bond various materials to create paintings, tape, cloth, glass, cellulose, and everything in between. Try this recipe for your own projects. It's thin and very useful with projects involving paper.

You will need:
1/2 cup water
1/4 cup sugar
1/4 cup white flour (not self-rising)
1 teaspoon powdered alum
1/4 teaspoon oil of cloves

What to do:
1. Combine dry ingredients.
2. Slowly add a cup of water.
3. Bring to a boil over medium heat.
4. Remove from heat and stir in remaining water.
5. Apply to paper with a brush.
6. Store in a covered jar.



Make Your Own Paste

Through our history, artists have learned to bond various materials to create paintings, tape, cloth, glass, cellulose, and everything in between. Try this recipe for your own projects. It's thin and very useful with projects involving paper.

You will need:
1/2 cup water
1/4 cup sugar
1/4 cup white flour (not self-rising)
1 teaspoon powdered alum
1/4 teaspoon oil of cloves

What to do:
1. Combine dry ingredients.
2. Slowly add a cup of water.
3. Bring to a boil over medium heat.
4. Remove from heat and stir in remaining water.
5. Apply to paper with a brush.
6. Store in a covered jar.

FOR MORE FUN: These are fun ideas for getting more creative with an activity. They're *not* required.

Take time to read through the whole badge before you start! You'll see which activities sound like the most fun, and you'll know how all the steps fit together, so you can do the choices that make the most sense for you.

Cancer in Chemical Waste
Every time you brush your teeth or wash your hair, chemicals wash down the drain. And these wash down? Ecotoxicology is the study of how these synthetic chemicals impact our environment.

More to Explore
Uncover the smelly truth. Investigate the ingredients in hair products. Research the environmental impact of hair products. Compare the ingredients in hair products. Investigate the environmental impact of hair products. Compare the ingredients in hair products. Investigate the environmental impact of hair products.

STEP 3 Explore hair
Some hair products claim to make hair shine. Others promise to make hair thicker. How do these claims work? Are you attracted to and why? **CHOICES - DO OR**

- Compare ingredients** in three different shampoos from the same brand. Look for the basic ingredients that shampoos share. Then compare the ingredients in those promising special effects such as shine or volume. What comes out of the ingredients cause the effect? How do acids work on the hair circle to create a shine? Then try each at least twice to see what ingredients produce a result you love.
- For More FUN:** Explore the principles behind cold water rinsing to make hair shine.
- OR**
- Tooth hair dye.** Speak to a dye expert about which chemicals are used in dyes to prevent damage to hair. How might leaving a hair dye on for too long cause hair damage? At home, take a sample of five strands of hair (perhaps from your hairbrush) and submerge it in hair dye for 20 minutes. Submerge another sample for 40 minutes, and another sample for 80 minutes. Wash and dry the samples in distilled water after each process. Analyze the hair under a microscope at school. What are the average number of breaks for each? What can you conclude?
- For More FUN:** Find out how dyes vary depending on the color. What is different about permanent, semi-permanent, and wash-out dyes?
- OR**
- Create a scent.** There are many ways to make your own scent. Here's one: Remove the stem from a flower you like, combine the flower with eucalyptus oil, and let it sit for a few weeks—use floral oil from a essential oil at a shop. Then pour the oil into a perfume bottle and spray it. Test your fragrance on your friends. Ask them: What does it smell like? Is it pleasing to you? What images does it conjure up?
- For More FUN:** Based on your results, design a print or video ad for your perfume.

PERFUME OF AN EGYPTIAN QUEEN
In ancient Egypt, wearing perfume was a status symbol. So you can imagine that an Egyptian queen had access to some of the world's most precious scents. Soon, you might be able to join the ranks of those scientists at Barin University's Egyptian Museum, who found traces of a fluid in a 3,500-year-old jar (or small bottle) inscribed with Pharaoh Hatshepsut's name. Biologists are using X-ray photography to examine the residue. Pharmacologists will study the results and, if possible, re-create the queen's perfume.

Careers in Style
Chemist
Fashion Ambassador
Social behaviorist
Fashion designer
Accessories designer
Hair and makeup artist
Costume designer
Pharmacologist
Dermatologist
Textile designer
Fashion or beauty photographer
Cosmetologist
Product manager
Fashion or beauty photographer
Scentologist
Biologist
CAD designer
Fashion buyer

MORE TO EXPLORE: These boxes offer extra activities related to the badge topic. They're *not* ways to complete the steps—just additional ideas about how to gain more insight and make your badges the most exciting they can be.

ADD THE BADGE TO YOUR JOURNEY:

When you go on a National Leadership Journey, you develop your leadership skills and enjoy the fun of learning new things and building new relationships. There are many ways to earn badges along the way. To help you brainstorm, each badge includes a tip for how to connect it to a Journey. Have fun using your imagination to find even more ways that badges and Journeys go together.

GIVING SERVICE: It's Girl Scout tradition to learn skills so we can use them to help others—we've been earning badges for this purpose for over a century. Here you'll find three ways you could give service with the skill you've just learned. There's also room to write how the skill inspires you to continue the tradition of service. You could add inspired ideas for Taking Action, too! These are ideas—they're *not* required.

Add the Badge to Your Journey
When you do Steps, try formulating a style that makes your vision of a perfect world for girls. What's the message you would want your fashion formula to send?

Now that I've earned this badge, I can give service by:

- Helping a younger girl with a style-based science fair project
- Sharing my products with the costume and makeup departments for school or community-based plays
- Educating others about the need for sustainable materials in fashion

I'm inspired to:

Planning Your Time and Budget



How much time should it take to earn a badge? That depends on you! When you're done, you want to feel a sense of accomplishment and know that you've really developed a new skill. So relax, enjoy yourself, and take as much time as you need.

In some badges, you're asked to "find out about," "explore," or "investigate" a particular topic. In general, this process should take at least an hour. Don't keep your eye on the clock, though! Keep going until you feel satisfied that you've gained a greater understanding of that topic.

When you're busy with school, friends, family, and extracurricular activities, you may wonder how you will find time to earn badges. Try to find connections between activities you're already doing and Girl Scouting. For example, maybe you already make dinner for your family once a week. If you're doing a Cook badge, you can easily figure out a way to make one of those dinners apply to a badge step—and your family will probably love eating the special meal you create!

You also may need to be creative about funding your badge activities. Try to complete a badge while spending little or no money. Use common resources or recycled products whenever possible. If you need supplies that don't fit your budget, see if you can get a donation from an individual or business owner. You might even find some inspiration in the financial skills you develop by earning your Financial Literacy and Cookie Business badges.

Tapping into an Expert Network

You'll see choices throughout the badges that suggest that you find an expert to give you information or teach you a skill. It's quite rewarding to get help from people who are willing to share their expertise. And if the badge is related to a possible career interest of yours, this can also be a way to start finding mentors and building your network!

When you ask someone to help you, be ready to explain why you want to earn the badge, how much time you're asking the expert to give, and any resources you might need, such as materials, equipment, or facilities. Let them know that their contributions will be a big help in fulfilling your goal.

Before you talk with or meet any expert, discuss your plans with your family and Girl Scout volunteer. They may want you to have an adult accompany you.

Interviewing Tips

Some choices ask you to interview someone. Here are some tips to keep in mind.

- 1 Set up the interview in advance.** Establish a convenient time and place for the interview. People may choose to talk at home, on the job, or in public places like a coffee shop. (If you're doing the badge on your own, meet in a public place.) Be flexible about your own schedule, and do your best to accommodate theirs.
- 2 Be prepared.** Write a list of questions ahead of time, and carry a notebook and extra pens to the interview. You could also bring a small tape recorder, but always ask before taping someone.
- 3 Take accurate notes.** If a person talks too fast, ask them to repeat the information. If you plan to quote someone, you must write down exactly what that person says.
- 4 Be polite.** Be on time, dress neatly, and remember to say thank you.
- 5 Relax and have fun!** Most people feel shy about meeting someone new. Try practicing with a friend or family member ahead of time—it will help you feel more at ease.



Exploring Careers

Every badge includes a list of careers related to the badge topic. If you're having fun doing a badge and a job related to it sounds exciting, find out more about it! Badge activities are a wonderful way to try your dream career on for size or get inspiration for new career goals.



Working with Younger Girls

As an older Girl Scout, you may want to pass on your knowledge or help younger Girl Scouts earn badges. Here are a few tips.

- Be realistic about time. Generally, children can stay focused on a directed activity for 20–30 minutes, but they prefer to be involved. This is why many of the badge activities are “hands-on.”
- Pay attention to all the children in a group and each of their individual needs—be careful not to pick favorites.
- If a girl is not acting appropriately, try to figure out why, and turn her attention to the activity at hand.
- When you are giving directions, try to do so visually as well as verbally. Demonstrate tasks before you ask girls to do them.
- Be flexible. There are a variety of ways to accomplish most activities. Within reason, you can let a girl find her own way.



Staying Safe

- When you're doing a badge activity, you may choose to work with an adult you know and trust. Discuss your plans with an adult before starting any activity.
- Some badges suggest going to a website for more information. Sign the Internet Safety Pledge before going online.
- Any badge that involves cooking requires extra care around stoves, hot food, and knives. Also be sure you know how to tell when food has been thoroughly cooked.
- When you're working on craft projects, be careful when using sharp tools. Use nontoxic paints, glues, and markers, and make sure your work area is well ventilated. Avoid using old or unlabeled materials, since you don't know how safe they are.
- Always wear safety goggles when working on anything (such as a science experiment) that may cause something to get in your eye.
- Emotional safety is important, too! Some badges suggest doing a role-playing exercise. Always be kind—listen well and respect people's varying points of view and privacy. Don't push someone to participate—and if they do volunteer, let them choose their role and take time to prepare. Never make fun of a performance.
- End every role-play with a discussion that allows everyone to process their thoughts, feelings, and emotions about what they've seen and heard.

Girl Scout Internet Safety Pledge

- I will not give out personal information such as my address, telephone number(s), parents' or guardian's work address or telephone number(s), and the name and location of my school without the permission of my parents or guardian.
- I will tell an adult right away if I come across or receive any information that makes me feel uncomfortable.
- I will always follow the rules of Internet sites, including those rules that are based on age of use, parental approval and knowledge, and public laws.
- I will never agree to get together with someone I "meet" online without first checking with my parents or guardian. If my parents or guardian agree to a meeting, I will arrange for it to occur in a public place, and I will bring a parent or guardian along.
- I will never send a person my picture or anything else without first checking with my parents or guardian.
- I will talk with my parents or guardian so that we can set up family rules for going online. We will decide on the time of day that I can be online, the length of time that I can be online, and appropriate areas for me to visit. I will not access other areas or break these rules without their permission.
- I will not use the Internet to collect money for Girl Scout products, and I will follow all safety guidelines related to Girl Scout product sales.
- I will practice online "netiquette" (good manners) at all times when online.
 - I won't spam others.
 - I will not bully nor will I tolerate bullying (and I will always tell a trusted adult if this is a problem).
 - I won't use bad language.
- I will be guided by the Girl Scout Promise and Law in all that I do online.

Signed,

My name

Date

Parent or guardian

Date

*The GSUSA Internet Safety Pledge is based upon the Online Safety Pledge developed by the National Center for Missing and Exploited Children.