



FIRE

Before completing this charm, girls should have completed the Wild Wonders Patch

Supervising adults must have TCC1 and TCC2 Training Certification prior to the earning of this charm. Check girlscoutsaz.org/tcc for adult training online certifications.

This program is self-guided. There will be opportunities for supplemental virtual events (and future in person events) that will guide you in the completion of your charm.

PREPARATION BEFORE STARTING – THINGS TO THINK ABOUT

- » What is the purpose for the fire?
- » What are the rules for fires? Where can fires be built?
- » What size fire do you need – too big is unnecessary and wasteful of fuel.
- » What material is available? Is it found locally or do you need to supply it?
- » What are the weather conditions?
- » How will the fire be put out?
- » Plan enough time for the fire to burn down and for appropriate clean-up and putting of the fire out cold.

FIRE SAFETY & KNOWLEDGE

- » Check for fire permit requirements and fire restrictions.
- » Have a bucket of water next to your fire, a shovel and a rake before lighting the first match (always have a way to put out the fire prior to starting it)
- » Use an established campfire ring, fire pit, or fireplace.
- » Rake out 15 feet from the fire area, in all directions, down to the mineral level. That means no leaves, dry grass, twigs, pine needles, etc. – just dirt and/or sand.
- » Tie back long hair.
- » Check yourself and your friends for loose clothing. Drawstrings on hoodies should be tucked in, scarves should be removed, no sweatshirts around your waist, long sleeves should be fitted or rolled up.
- » Be sure no branches are hanging overhead.
- » Always have an adult supervising.
- » NEVER leave a fire unattended.
- » Pile firewood on the windward side of the fire, well away from the flames.
- » Do not use lighter fluid.
- » No horseplay or running around the campfire.
- » Know the three parts of a fire and what their position in the fire are (oxygen, fuel, heat).
- » Know the three types of wood for fire building:
 - **Tinder:** the “fluffy stuff” that will catch fire and burn quickly. Tinder usually consists of dry grass, dry pine needles, or dry leaves. Tinder is on the bottom/center. Tinder is around the size of your pinky finger and should NOT BE LONGER than your outstretched hand.



WILD WONDERS

- **Kindling:** small sticks. Kindling is what the tinder lights. The job of kindling is to burn the fuel. When your kindling catches fire, your fire is burning. Kindling needs to touch the tinder and the fuel. Kindling is no thicker than a thumb and should not be longer than elbow to wrist.
- **Fuel:** Fuel is larger wood and logs. These will burn a long time and will be where the bulk of the heat from your fire comes from. Fuel in contact with the kindling. Fuel is at minimum as thick as a wrist and not be longer than elbow to fingertips.

DAISY (GRADES K-1)

- » Review safety rules about fire.
- » Review and Practice the “Stop, drop, and roll” so participants know what to do if clothing catches fire.
- » Set up a fire circle.
- » Learn how to strike and hold a match. Practice by lighting matches over a bucket of water. Only practice this with an adult supervising.
- » Review the three types of wood for fire building.
- » Learn the proper way to make an A-Frame fire.
- » Create an edible camp fire using small marshmallows, pretzels, small candy bites, and a cup of juice.

BROWNIE (GRADES 2-3)

- » Review safety rules about fire.
- » Use a designated fire ring and set up / clear the fire circle.
- » Review the three types of wood for fire building.
- » Learn the three parts of what each fire needs (fuel, oxygen, heat).
- » **Learn how to build a teepee fire and practice.**
- » Practice lighting matches safely over a bucket of water. Only practice this with an adult supervising.
- » Set up a fire properly (stack your wood, have water ready, etc.).
- » Show that you know all the safety rules and can follow them.
- » Build an A-Frame fire. Light your fire. Use your fire to make s’mores.
- » Safely extinguish your fire with an adult: spread out fuel/coals, sprinkle with water, turn with rake, add additional water, continue to turn fuel and add water. Last step: place the back of your hand above the fuel to test for heat and if any heat is left in wood, continue to add water. All fire coals/wood must be COLD before leaving the area, to ensure it has been fully extinguished.

JUNIOR (GRADES 4-5)

- » Review safety rules about fire.
- » Show that you know all the rules by setting up a fire properly. Use a designated fire ring and set up / clear the fire circle.
- » Practice lighting matches safely over a bucket of water. Only practice this with an adult supervising.
- » Review the three types of wood for fire building.
- » Build an A-Frame fire. Light your fire. Use your fire to make s’mores.
- » Learn one other way to build a fire (cone or log cabin). Make a “fire starter.” Use the internet to find different fire starters and test them. Which one worked the best for you?
- » Safely extinguish your fire with an adult: spread out fuel/coals, sprinkle with water, turn with rake, add additional water, continue to turn fuel and add water. Last step: place the back of your hand above the fuel to test for heat and if any heat is left in wood, continue to add water. All fire coals/wood must be COLD before leaving the area, to ensure it has been fully extinguished.

CADETTE (GRADES 6-8)

- » Review safety rules about fire.
- » Show that you know all the rules by setting up a fire properly. Use a designated fire ring and set up / clear the fire circle.
- » Practice lighting matches safely over a bucket of water.

- » Review the three types of wood for fire building.
- » Build an A-Frame fire. Light your fire. Use your fire to make s'mores.
- » Learn other ways to build a fire. What are the different types of fire building good for? For example, cone fires are used for quick coals and intense heat.
- » Make a "fire starter." Use the internet to find different fire starters and test them.
- » Learn how to start a charcoal fire. Which fire starter works best for you? Remember, Girl Scouts don't use lighter fluid!
- » Use your fire skills to hold a troop or family campfire.
- » Safely extinguish your fire with an adult: spread out fuel/coals, sprinkle with water, turn with rake, add additional water, continue to turn fuel and add water. Last step: place the back of your hand above the fuel to test for heat and if any heat is left in wood, continue to add water. All fire coals/wood must be COLD before leaving the area, to ensure it has been fully extinguished.

SENIORS AND AMBASSADORS (GRADES 9-12 + ADULTS)

- » Review safety rules about fire.
- » Practice lighting matches safely over a bucket of water.
- » Build an A-Frame fire. Light the Fire. Use your fire to make s'mores.
- » Learn other ways to build a fire. What are the different types of fire building good for? For example, cone fires are used for quick coals and intense heat.
- » Make a "fire starter." Use the internet to find different fire starters and test them.
- » Learn how to start a charcoal fire. Which fire starter works best for you? Remember, Girl Scouts don't use lighter fluid.
- » Build a fire to boil water.
- » Use your fire skills to hold a troop or family campfire.
- » Try lighting fires by different methods such as magnesium/steel.
- » Safely extinguish your fire with an adult: spread out fuel/coals, sprinkle with water, turn with rake, add additional water, continue to turn fuel and add water. Last step: place the back of your hand above the fuel to test for heat and if any heat is left in wood, continue to add water. All fire coals/wood must be COLD before leaving the area, to ensure it has been fully extinguished.

RESOURCES

The following resources will help in the completion of this charm.

- » Fire Building Girl Scout Way – [youtube.com/watch?v=XMxzDaEX00](https://www.youtube.com/watch?v=XMxzDaEX00)
- » Build a Teepee – my.girlscouts.org/content/dam/girlscouts-vtk2019/local/aid/meetings/B18EB02/How-to-Build-a-Teepee-Fire.pdf

BADGE CONNECTIONS

By participating and completing this Charms program, you are also on your way to earning Girl Scout badges. Purchase specific badge requirement packets at girlscoutshop.com/ARIZONA-CACTUS-PINE-COUNCIL.

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| » Daisy = Buddy Camper | » Cadettes = Primitive Camper |
| » Brownie = Cabin Camper | » Seniors = Adventure Camper |
| » Juniors = Camper, Eco Camper | » Ambassadors = Survival Camper |

RECOMMENDED NEXT CHARMS:

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| <input type="checkbox"/> Cabin Camping | <input type="checkbox"/> Leave No Trace |
| <input type="checkbox"/> Outdoor Cooking | <input type="checkbox"/> Knives |
| <input type="checkbox"/> Tent Camping | <input type="checkbox"/> Knots |
| <input type="checkbox"/> First-Aid | |