



Home Scientist



Badge Overview

Find out where science has been hiding in your home. When you've earned this badge, you'll be able to see the science all around you.

Badge Components Part 1

1. Be a kitchen chemist

Choose 3 of these experiments to do in your kitchen.

- Invisible Ink** – you will need: Lemon or lemon juice, water, spoon, bowl, cotton bud, lamp and paper.
- Quick Sand** – you will need: Corn flour, water, a large plastic container and a spoon.
- Fireworks in a glass** – you will need: Oil, food coloring, 2 glasses and a fork.
- Escaping Water** – you will need: 2 glasses, water and paper towels.
- Magic upside down water** – you will need: A glass and a piece of cardboard.
- Fireworks in a glass** – you will need: Egg shells, an egg box, salt or sugar and food coloring.
- Rock Candy** – you will need: A wooden skewer/chop stick, Clothespin, water, sugar and a tall narrow glass or jar.

2. Create static electricity

Choose 3 of these experiments to do in your kitchen.

- In this video there are 9 different experiments you can do to explore static electricity. At the beginning of each experiment it gives you a list of the materials you will need, but here is the complete list for all 9 experiments.
 - You will need: Styrofoam cup and plates, cloth, PVC pipe, tape, empty soda can, thread, match, glass jar, straw, bubble solution, aluminum foil, polycarbonate sheet, Styrofoam balls, blocks, balloons, and steel wire.

3. Dive into density

Choose 1 of these experiments to do in your kitchen.

- Rainbow in a Glass** – *Skittles* – you will need: Skittles, water, 5 glasses, mug, tablespoon, glass, dropper or pipette (or you can pour the liquid over a spoon touching the inside of the glass above the liquid level so it goes down the side of the inside of the glass).
Rainbow in a Glass – *Sugar water* – you will need: 5 glasses, sugar, water, food coloring, tablespoon, measuring cup, straw, sauce bottle, large glass or bottle.
- Layers of liquid** – you will need: A glass, spoon, water, oil, syrup, food coloring, and paper towels.

Materials

- Please see each individual experiment you can choose from for specific materials required.

Florida Educational Standards

The content of all Girl Scout national proficiency Badges and Journeys have been correlated by grade level to national and state learning objectives.

Click here for more information on how Girl Scout Badge-work supports Florida's educational standards.



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Include her name, troop# and the name of the badge she's working on and we'll feature her.

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