

SCIENTIST BADGE



How to earn your badge...

Choose 1 of the following options:

1. Option 1

- a. Explore and discuss the science behind two Scouting activities or hobbies.

For example, you could investigate the science behind a perfect campfire, how a kayak stays afloat and travels through the water, or how a compass or GPS device works.

- b. Complete **one** of these:

- Plan and complete your own experiment to explore the science behind one Scouting activity or hobby. Record your findings and explain what these mean to others.

Try thinking of a question you want to answer or something you want to prove.

- Plan and run an activity, demonstration or presentation to help others understand the science behind a Scouting activity or hobby.

2. Option 2

- a. Plan and complete three science experiments or activities. Check your plan with an adult first, then for each experiment:

You could try making invisible ink, creating an eruption, designing a catapult or putting together a battery.

- Change something about the experiment or activity and try it again, at least once. Predict what you think will happen and find out if you were right.
- Show that you understand the science behind your experiment or activity.

- b. Find out how one of your experiments or activities links to the real world. Then, explain it to others.

For example, if you made a battery, what are batteries usually made from? If you created an eruption, how similar or different is this to how volcanoes erupt?