



### LOOK AHEAD!

*Arrow of Light den meeting plans do the Sportsman activity badge, which requires two individual sports belt loops and two team sports belt loops!*

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# Webelos Den Meeting 10

## Geologist

### Preparation and Materials Needed

- ▶ Identify any parents or other pack resources who are geologists or rock collectors and could be an activity badge counselor for this meeting.
  - Be sure any guest speaker knows how long the presentation should run, and that you've confirmed what can or should be covered that would be interesting and fun for the Scouts.
  - Show any guest speaker the Geologist chapter in the *Webelos Handbook*.
  - Getting a visitor to bring a rock and mineral collection is a terrific idea.
  - Also, consider having a den chief show how rocks can be used as firestarters!
- ▶ Materials checklist (add to your den Cub tub of U.S./den flags, paper/pencils, other supplies):
  - Bring paper, markers, and pictures (or actual samples) of fossils found in your area.
  - Rock collections, books.
  - Geologist activity badge pins for each of your Scouts (so they can be awarded if completed today).

### Before the Meeting

- ▶ Review After the Meeting at the end of the previous den meeting plan for necessary preparation and materials.
- ▶ Make final preparations with assistance from any assistant den leader or other parent helper, den chief, and/or denner. Organize the space (seating, flags, advancement charts, activity materials, handouts, etc.). If you're snacking, organize space for that and the cleanup.

### Gathering

- ▶ Have a gathering activity (games, puzzles, other) that will keep Scouts interested and busy and that others may join as they arrive. If the den desires, serve a healthy snack during this time.
- ▶ If you have background materials for the activity badge, Scouts may be interested in reviewing those.
- ▶ Collect dues, record attendance and any advancement completed at home (a good job for an assistant den leader). Assign parents to meeting roles and hand out a meeting plan to each.

### Opening

- ▶ Flag ceremony (rotate planning and leadership to complete **Webelos requirement 6**), with Pledge of Allegiance; maybe recite the Cub Scout Promise or sing a patriotic song; perhaps add a roll call, uniform recognition, or den yell.
- ▶ If you have a guest, give a formal introduction, including what the guest will do for you.

### Business Items

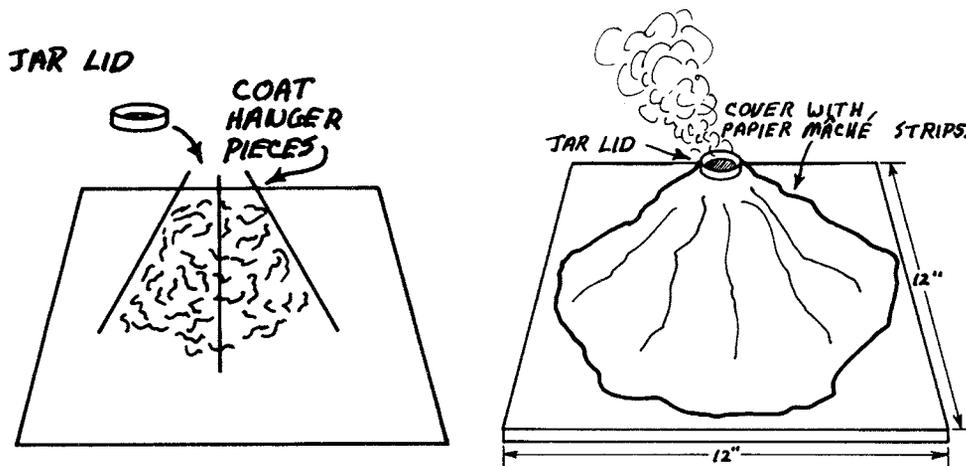
- ▶ Use this time also to discuss participation in upcoming pack meetings or events as needed.
- ▶ Explain that today's meeting is to complete work on the **Geologist activity badge**.

### Activities

- ▶ **Geologist Activity Badge:** Requirements are to do five of nine requirements. (This meeting does 4, 5, and 6. Meeting 9 did 1, 2, and 8.)
  4. List some of the geologic materials used in building your home.
    - Or in building where your den meets.
  5. Make a drawing that shows the cause of a volcano, a geyser, or an earthquake (*Webelos Handbook*, page 290–293).
    - Or do more than a drawing.
    - For earthquakes, you might show the boys how the earth's plates can move, shift, and force down upon each other when you discuss earthquakes:
      - Have each boy put mud in a disposable cake pan. Let dry. Now, have them flex the pan at opposite sides. The earth cracks and shifts. Some pieces break apart; some will fit back together again.
    - For another experiment to demonstrate how strong an earthquake is, you might do this:
      - Fold a sheet of newspaper seven or eight times, and then try to tear it.

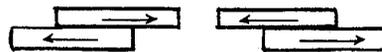
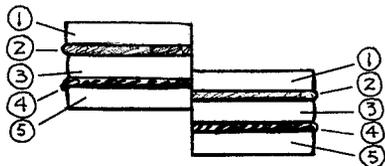


- Each sheet of paper represents a layer of the earth.
- It doesn't take much effort to move one layer of newspaper or earth. However, tremendous force is required to move or fold the earth's crust, which is made up of many different layers.
- For earthquakes/tectonic plates, a simple demonstration you can do in a classroom is to move two desks together and place a few items on each desk.
  - Slide the desks against each other.
  - Have the Scouts notice what happens to the items on the desks.
- For volcanoes, you can make a volcano model:
  - Volcanic eruptions happen when pressure builds inside a volcano, forcing ash and lava out the top. In this papier-mâché volcano, you'll use baking soda and vinegar to simulate an eruption.
  - Materials: 12-inch-square wood for base, aluminum foil, baking soda, vinegar, red food coloring, newspaper and wallpaper paste, jar lid, wire coat hangers.
  - Make a cone-shaped base for the papier-mâché by sticking pieces of coat hanger in the wood base diagonally.
  - Fill in under the wires with wadded aluminum foil.
  - Cover the cone with papier-mâché.
  - Leave an opening in the top where the jar lid can be set. Let it dry.
  - Paint with tempera or acrylic paint.
  - Set the jar lid upside down in the top of the volcano.



- To make the volcano erupt, place about one teaspoon of baking soda in the jar lid.
- Add ¼ cup of vinegar mixed with a little red food coloring, and watch the action!
- The baking soda and vinegar react to make carbon dioxide gas.
- The gas squirts out of the volcano, bringing the foamy red liquid to the surface. This is safe to do indoors.

6. Explain one way in which mountains are formed.
  - Here's a fun way for Webelos Scouts to build models of different geologic formations.
  - Materials: Modeling clay in at least four different colors, approximately ¼ pound each; talcum powder, a knife, and a straw.
  - When building the models, be sure to put talcum powder between the layers so they can be separated easily.
  - The straw can be used to show underground lakes or rivers. These models make a great display for the pack meeting.



- The same effect as the models illustrated above can be achieved with layered peanut butter and jelly sandwiches to help show how natural forces shape layers or rocks. **Note:** Check for food allergies.
  - Sometimes the earth's crust moves up and down.
  - Cut the sandwiches in half and move one half up or down. This demonstrates a vertical fault, a type of movement that can cause earthquakes.
  - Then slide two parts of the sandwich past each other on the same level. This demonstrates a lateral fault. Boys can now eat their rock layers!

- ▶ In the boys' *Webelos Handbooks*, sign the requirements met (and update your records).

### Closing

- ▶ Award (or recognize) any advancement completed today (ideally, award the activity badge, belt loop or compass item completed today, and recognize later at the pack meeting); thank hosts, guests, helpers.
- ▶ Closing ceremony (rotate planning and leadership to complete **Webelos requirement 6**): Retire the colors; maybe with the Boy Scout Oath and/or Law, or the Law of the Pack and/or den yell. Den leader may add a den leader's minute comment.
- ▶ Remind the Webelos Scout who will plan and lead the next meeting's flag ceremony, and remind about home assignments (and include these in any family information letter or e-mail).
- ▶ Hand out or send family information letter.

▶ **Home Assignment:** Review the Engineer chapter in the *Webelos Handbook*.

### After the Meeting

- ▶ If you've changed the sequence of den meetings, double-check to make sure you will still advance your boys appropriately and check with the Cubmaster to make sure you stay coordinated with the pack.
- ▶ Refreshments: If appropriate
- ▶ Cleanup: Recruit enough help to do a good job. Scouts always leave an area as clean, or cleaner, than they found it.