

## Teacher Fossil-Dig Instructions

On Day 1 of the unit, teams of students will work together on a “fossil dig” to uncover a plant fossil. The fossil digs **must be prepared several days ahead of time** to allow time for making the fossils and preparing the “digs.” The teacher will prepare one fossil dig per team (4 teams).

### Materials:

- 8” paper or Styrofoam plates
- plaster of paris
- measuring cup
- water
- paper ice cream cup
- spoon
- jar of Vaseline
- real leaves (teacher choice)
- large paper clips
- hammer
- goggles
- newspaper or cardboard
- aluminum lasagna pans, plastic tubs, or cardboard boxes—approximately 14” x 10” x 3” (deep enough to bury fossils)
- soil (enough to cover fossils in each pan; it is recommended that you use bagged soil instead of soil from the yard to avoid safety hazards)

### Directions:

This will make 1 fossil (each team will need 1 fossil):

- You will use 1 cup of plaster with 1/2 cup of water.
- Pour water into a paper ice cream cup and **gradually** add the plaster, stirring with a spoon to a creamy consistency (about 2 min.).
- Pour onto one plate. Smooth with the back of the spoon or tilt plate carefully to spread the plaster out evenly over the plate.
- Choose either 1 large leaf or 2 different leaves that will fit on the plate. Coat the underside of the leaves with a thin, smooth amount of Vaseline (to facilitate removing them from the plaster).
- Press leaf or leaves gently onto the plaster. Allow 30 minutes for the plaster to semi-dry, then remove the leaves. Use an opened paper clip to gently release any parts of the leaf or leaves that stick.
- Allow the leaf “fossils” to air dry about 24 hours

To make the “dig”:

- After drying for 24 hours or more, place each fossil on a piece of cardboard or newspaper.

- Put on goggles! Use the hammer to strike the fossil right in the middle to break it into pieces. One good strike should do it!
- Place enough soil in the aluminum pan to randomly bury the fossil pieces.
- Team members will take turns digging out a piece at a time, then reassemble.
- See Day 1 lesson for further instructions.