## Grand Canyon Stream-Table Model Construction (Teacher Master)

In part 1, students used a canyon stream-table model to demonstrate how water in spray bottles—representing snowmelt and rain in the mountains—forms streams and side canyons. In part 2, students will use drip systems to make a "river" flow through the canyon model. This model is intended to demonstrate how water carries sediment (sand and soil) out of the canyon through the river channel.

## Materials

- Styrofoam block (1 per model)
- Knife
- Small blowtorch
- Spray paint (red or brown)
- 1. Place the Styrofoam block on a hard surface. With a knife, make a slight indentation in the Styrofoam as an outline for the river.
- Using the blowtorch, carve along the outline to make the riverbed. The indentation should be shallower at one end and become increasingly deeper to illustrate erosion. (Note: Since gas is released when Styrofoam is heated, perform this step outside or in a well-ventilated area.)
- 3. Spray brown paint on the finished model and apply dirt to add texture.

