

Here are some ideas for a geology trunk/kit and lessons that align with the K-12 geology TEKS.

Geology Kit Contents (Probably needs more than one trunk)

Various Types of Soils, 8 small bags of each

- fine sand
- coarse sand
- fine gravel
- coarse gravel
- potting soil or humus
- clay soil
- silt
- pebbles

Sieves

Small angular pebbles (for shaking)

8 medium bags of rocks of mixed types

small, large, and medium plastic jars with lids

bags of soils that vary in the clay and sand content

- loam
- sandy loam
- sandy clay
- clay
- sand

Magnifiers

funnels on stands

coffee filters

graduated cylinders (plastic)

beakers (plastic)

Soil Analysis Chart

Paper or plastic plates

droppers

small shallow containers

sponges

model of fossil fuel formation (fossil fuel deposits under layers of rock)

Epsom salt (for making solution)

plaster of Paris

oyster shell fragments

powdered clay or silt

small paper or plastic cups

samples of the following sedimentary rocks:

- banded sandstone
- layered shale
- fossiliferous limestone

Stream table and additional apparatus needed:

- Mixed sand and clay (for use with stream table)
- Pitcher or watering can

- basin for runoff

Hair dryers

goggles

alcohol wipes (for goggles)

long, narrow tray (for making a glacier)

Geology photos:

- V-shaped valleys
- U-shaped valleys
- Aerial photos of "young" rivers
- Aerial photos of "old" rivers showing meanders, oxbow lakes, deltas, sand bars
- moraines
- glaciers

Fossil kits - plastic models with identification charts

Modeling clay

Vaseline

Real fossils from the Coppell Nature Park

Rock Identification Books

Geoblox Models with their corresponding topographic maps

Model landform to use to make topographic map