

# Simulating the Earth:

## A Teacher Project

One easy way to simulate the Earth is to build each of the different layers of the earth on foam board or sturdy cardboard. To begin, build the three layers of the crust (sedimentary, metamorphic, and igneous). The challenges for each layer are different and include letting passengers on and off to explore different layers such as limestone caves, magnets and solid marble. Examples of some of the layers are shown below (keeping the layers separate makes transporting them easier).



**Crust - Sedimentary (sandpaper on bottom)**

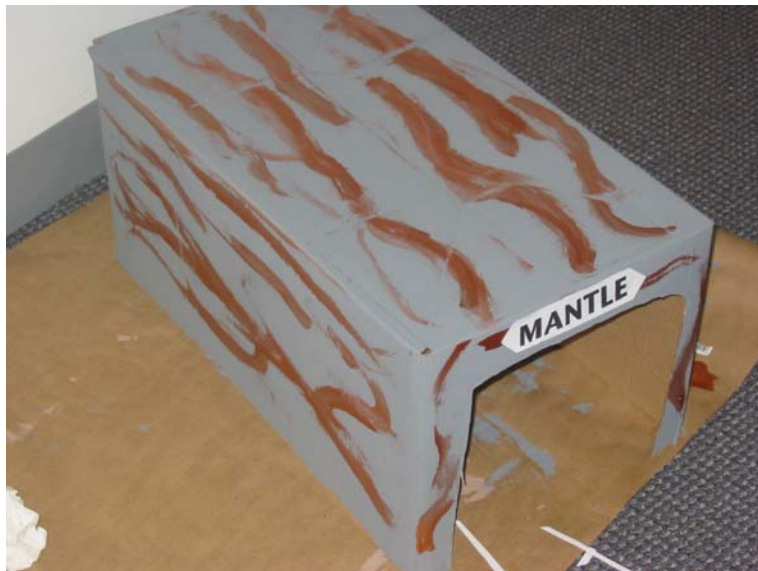


**Crust - Metamorphic (staple bubble wrap to the bottom)**



**Crust** - Igneous (add small pebbles to the bottom)

Next in the layers is the mantle. For this obstacle, the students will have to push igneous rocks out of the way and then find a mechanism to break through solid rock (packing peanuts).



**Mantle** (fill the Mantle with packing peanuts and place sponge rocks at the entrance)

Finally, the students will have to design a way to retrieve a magnet from the core (sorry, no picture yet!).