## Concept:

Earth Science: The Structure of the Earth

## Materials:

- o Construction paper (red, orange, yellow, brown, grey)
- CompassMetric Rulers
- o Sand
- Glue sticks, Liquid glue
- Scissors

## State Standards:

(arkedu.state.ar.us)

ESS.8.6.1

Identify and diagram the layers of the Earth:

- crust
- mantle
- inner and outer core

ESS.8.6.2

Model the layers of the Earth

ESS.8.6.3

Model how convection currents in the mantle affect lithosphere movement

## **Procedure**

- 1. Using pictorial representations in a powerpoint presentation, present the earth as divided into three layers—the *crust*, *mantle*, and *core*—based on composition and physical properties. Compare the size and density of the core of the Earth to Mars. Have the students fill out a diagram sheets for themselves, labeling the layers and major properties.
- 2. Further dissect the Earth into five layers—the lithosphere, asthenosphere, mesophere, outer core, and inner core. Describe each layers physical properties. Compare temperatures to those on the surface of the sun. Relate prefixes for easier remembering.
- Explain how scientists mapped the inside of the Earth. Briefly explain how seismic waves travel more quickly through liquid than solid, so that