

# Using Nature to Meet Educational Standards

## **SCIENCE**

### **Third Grade**

#### Activity #1:

Materials: piece of paper and pencil/pen for each group of 2 students, thermometer.

Head outside into the outdoor classroom or school grounds. Using a thermometer (or a permanent weather station). Record on your piece of paper the air temperature.

Next, use your ground thermometer to measure the soil temperature in the open sun... measure the soil temperature about 1 inch below the surface. Push the thermometer farther into the ground, measure the soil temperature 4 inches below the surface. Is there a difference? Why?

Now, measure the soil temperature in a shady spot (under a bush, in the shade of a building). Measure the temperature 1 inch and 4 inches below the surface. Is there a difference between the 1 inch and 4 inch temperature? Why?

Is there a difference between the sunny soil temperature and the shady soil temperature? What has caused this difference? What is the source of heat?

Is this an example of radiation, conduction, or friction?