

## AFTER 2: Data Analysis for Porosity Experiment

**Background:** Each student group collected data during their porosity experiment. Students can use the data analyze their data to answer the question: What does the data tell us? Students then make conclusions about the experiment, and discuss experimental design and flaws in their investigation process.

**Standards Addressed:** Math (2016) 3.15

### **Instructional Strategy:**

1. Recap and review the soil porosity experiment conducted at Blandy.
2. Ask: What can we do with our data from our experiment at Blandy? Solicit responses to move students to begin discussing analysis of their data. Ask students to generate ideas on HOW to analyze the data. They can write ideas on post-its, consider each idea, tally up the most frequent responses, and decide on the best way to analyze the data.
3. In the Virginia math SOL, students study bar graphs so this may be the path they choose to display their data. If so, you can find the mean (average) of the time in seconds for the water moving through the soil AND for the amount of water left in the soil.
4. If time allows, students can create graphs on large paper, or bring in technology and create the graphs using an appropriate math digital platform.

