## Micelles to the Rescue: How Soap Transports Debris

#### **Materials List**

## Day One - Soap Making Activity

- Crisco 20 g
- NaOH (aq) 6M, 10 mL
- Beaker 100 mL
- Styrofoam cup
- Graduated cylinder 25 mL
- Glass stirring rod
- Hot plate
- Two thermometers
- Universal pH indicator paper
- Dropper

# Day Two – Hook Activity and Lesson

- Beaker 2000 mL (8)
- Beaker 100 mL (one per group)
- Calcium Chloride, CaCl<sub>2</sub>, 100 grams
- Black Pepper, ground
- Generic dish soap
- Olive Oil mixed with a little dirt, 100 mL
- Disposable cooking pans (4)
- Tap water

## Day Three – Experiment with Soap

- Olive Oil, 1 mL
- Distilled water, 100 mL
- Homemade soap
- Commercial soap
- Test tubes (7)
- Test tube stoppers (7)
- China Marker
- Test tube rack
- Hot plate
- Cold Bath
- Calcium Chloride, CaCl₂ 0.1 M, 10 mL
- Balance
- Forceps
- pH paper
- Pipet (2)
- Watch glass
- Cotton swab