



# Water and Sediment

## Procedure

- 1. Collaborate** Work with a partner. Use a hand lens to study a mixture of sediment. Sediment is made up of bits of sand, soil, and particles of rock. Record below what you observe.

**Safety:** Wear goggles.

---

---

---

- 2. Measure** Use the chart below. Fill a plastic soft-drink bottle about two-thirds with water. Add 3 spoonfuls of sediment. Observe and record in the chart the appearance of the sediments.

	Sediment with Water
Start (step 2)	
After swirling (step 3)	
After 2 hours	
After 4 hours	
Prediction	

- 3. Observe** Swirl the material in the bottle for about 30 seconds. Then set down the bottle. Record what you observe.

Name \_\_\_\_\_ Date \_\_\_\_\_

**4. Predict** Observe the contents of the bottle every 2 hours for the rest of the day. Record your observations in your chart each time. At the end of the day, write a prediction about how the sediment will look in 24 hours.

## Conclusion

**1. Compare** Look at your chart. How are your observations alike and different?

---



---



---

**2. Infer** How does what you observed in the bottle relate to what occurs in nature?

---



---



---

**Experiment** Put a mixture of dry rock particles into two plastic bottles. Add water to one bottle. Shake each bottle for 20 seconds. Hypothesize where in nature similar processes occur.

Guided Inquiry