

Sand, Salt, Solutions

Procedure

- 1. Collaborate** Work with a partner. Pour 250 mL of water into each beaker. **Safety:** Wear goggles as you perform this procedure.
- 2. Observe** Add two teaspoons of sand to one beaker and two teaspoons of salt to the other beaker. Observe what happens to the sand and to the salt. Record your observations on the lines below.

- 3. Experiment** Use the spoon to stir the mixture of sand and water for about 15 seconds. Stop stirring and observe the mixture. Record your observations below. Allow the mixture to sit quietly for several minutes. Again, observe the mixture and record your observations.

- 4. Predict** Predict what will happen to the mixture of salt and water if it is stirred. Record your prediction on the lines below. Then repeat step 3 with the mixture of salt and water.

5. Compare Record any similarities and differences in the two mixtures after stirring and after sitting still.

Conclusion

Write the answers to the questions below.

1. Infer Which material formed a solution when mixed with water? How did you reach this conclusion?

2. Predict What would happen if you used sugar instead of sand?

Investigate More!

Design an Experiment Select a number of different materials to mix with water. Compare your results with those you obtained with sand and salt.

