Shake It Up!

Procedure

1. **Collaborate** Work in a group. Label each of four containers *Salt, Sand, Food Coloring,* and *Oil.* Fill each container halfway with water. **Safety:** Wear goggles.

2. **Observe** Add a spoonful of sand to the *Sand* container. Close the lid and hold it on as you shake the container. Observe the mixture. Record your observations on the lines below.

3. **Record Data** Repeat step 2, adding a spoonful of salt to the container labeled *Salt.* Repeat step 2 again, adding 3 drops of food coloring to the *Food Coloring* container. Record your observations on the lines below.

4. **Observe** Add a small amount of oil to the *Oil* container. Close the lid and shake it well for about 1 minute. Record your observations on the lines below. Let the mixture stand for 3 minutes. Record your observations.
5. **Compare** Look carefully at each mixture. Observe how they are alike and how they are different. Record your observations on the lines below.

________________________________________________________________________
________________________________________________________________________

**Conclusion**

Write the answers to the questions below.

1. **Compare** Which materials appear to mix evenly with water?

________________________________________________________________________

2. **Communicate** On a separate sheet of paper, draw a diagram to show the oil and water mixture after it stood.

**Investigate More!**

**Research** Salt water is a common mixture. Do research to find out some important uses of salt water, also called saline. Look for medical uses, as well as uses in manufacturing.