

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.