



Observing how oil and water interact with soap



QUESTION

What happens when soap is added to a mixture of oil and water?



HYPOTHESIS

When soap is added to oil and water, I predict that

_____.



MATERIALS

- Clear jar or glass
- Food coloring (optional)
- Water
- Measuring spoon
- Vegetable oil
- Stirring stick or spoon
- Dish soap



PROCEDURE

1. Fill the jar about halfway with water.
2. Add a few drops of food coloring to the water (optional).
3. Slowly pour vegetable oil into the jar until the jar is almost full.
Observe what happens. Let it sit for 1 minute.
4. Add 1 teaspoon of dish soap to the jar.
5. Watch closely. Do not shake the jar.
6. Stir gently with a spoon or stick. Observe again.



OBSERVATIONS / RESULTS

What did you observe?

What happened after the soap was added?



CONCLUSION

What does this experiment show about how oil, water, and soap interact?

Was your hypothesis correct? Why or why not?
