



HOW DOES SOAP WORK?

 10-15 minutes + questions and journal time

 Follow all safety instructions from LearnLibre.com during the experiment.

Watch Lesson



Before the Experiment

Find a safe and appropriate place to do the experiment, get any safety equipment you will need, and gather your materials on a tray.

Materials

- Test tube with cap
- Oil
- Water
- Soap
- Pipette

Procedure

1. Using your pipette, fill your test tube $\frac{1}{4}$ full with water. Then, fill your test tube to the halfway point with oil.
2. Put the cap on your test tube, and vigorously shake. Observe what happens.
3. Take the cap off of your test tube, and add 1 drop of soap to your mixture.
4. Put the cap back on, and vigorously shake. Observe what happens.

Questions

1. What happened when you tried to mix oil and water? What happened when you added soap?
2. How do you think soap works?
3. What is an emulsion? *Hint: this experiment involves emulsion.*

See answers by scanning the QR code at the top of the page.

Clean-up

Wash and dry any tools you used, put materials back where you got them from, clean your work station.

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