

QUESTION

What is the most effective way to remove bacteria from your hands?

MY HYPOTHESIS:

SOAPY SOLUTIONS

Materials Needed:

- Cooking oil
- Cinnamon
- Access to sink to wash hands
- Measuring spoons (teaspoon and tablespoon)

GETTING READY

Ask three classmates to volunteer for the experiment.

PROCEDURE

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For the student volunteers:

- 1. Rub 1 tablespoon of cooking oil all over your hands until completely coated. Sprinkle 1 teaspoon of cinnamon on hands and rub it around until it's evenly distributed. The cinnamon will be like bacteria. It's all over!
- 2. Wash hands as follows, rubbing them briskly for 20 seconds:
 - Student #1: wash hands with cold water and no soap
 - Student #2: wash hands with warm water and no soap
 - Student #3: wash hands with warm water and soap

For the rest of the class:

- 1. Observe the three handwashing methods.
- 2. Record the results.



Check to make sure there is handwashing soap at every sink in your home and at school.



- The method of handwashing that removed the most "bacteria" was:
- The method that removed the least "bacteria" was:
- Illustrate how the hands of Students 1, 2 and 3 looked after washing.



- I can remove bacteria from my hands by:
- If I used only cold water and no soap to wash, this is what might happen:
- Why does the . . .
 - Warm water help?
 - Soap?
 - Rubbing?

Encourage all family members to wash hands with soap and warm water for 20 seconds.