

**Explanation:**

In the experiment, the surface of the water represents the skin on our hands. The pepper represents harmful dirt and germs (microbes) that need to be washed away to keep us healthy.

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In the first test, the pepper shouldn't have moved much. A little may become stuck to the finger but it will have remained on the surface and represented the germs remaining on a hand.

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In the second test, the pepper should have moved away from the soapy finger. This shows that the soap moved the dirt and germs away because the soap removes the oils found on your hands.

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Microbes stick to the oils on our hands so we need soap to remove them. Without soap, the oils stay on our hands and the microbes find it easier to stick!

