

Pepper Soup

#0.3

1. Purpose: How will a pepper covered bowl of water react when liquid soap is ^{lightly} touched to the center of the water's surface.

2. Materials: Large Bowl, water, pepper, liquid soap

3. Procedures:
1. fill a bowl about $\frac{1}{3}$ full of water
2. Sprinkle some pepper onto the surface of the water
3. Place a drop of ^{liquid} soap on your index finger
5. Lightly touch the soap to the center of the water's surface.

4. Hypothesis: I think the pepper will stick onto the soap because the soap will be wet & sticky.

5. Results: The pepper made a ring & went to the edge of the bowl

6. Conclusion:

Water is a polar molecule, one side is positive and one is negative. Water's attraction to itself = cohesion. The soap grabs onto the water. When the soap was dropped into the water, it breaks the surface tension, causing the pull to be weakened. The pepper was just a visual aid.

