

## Day 2 Soap Testing

Obtain the ~10-12 samples of soap. Conduct testing on each sample. For your testing, record your observations; this same document is also available as a Google doc so that you can include it in your lab report.

<b>Sample</b>	<b>Aroma</b>	<b>Appearance</b>	<b>Lather</b>	<b>pH Value</b>	<b>Overall Feel</b>	<b>After ~5 min. in H<sub>2</sub>O</b>	<b>Other Observations</b>
<b>A</b>	Awesome    Appealing Adequate    Awful	Awesome    Appealing Adequate    Awful	Awesome    Appealing Adequate    Awful		Awesome    Appealing Adequate    Awful	Awesome    Appealing Adequate    Awful	
<b>B</b>	Awesome    Appealing Adequate    Awful	Awesome    Appealing Adequate    Awful	Awesome    Appealing Adequate    Awful		Awesome    Appealing Adequate    Awful		
<b>C</b>	Awesome    Appealing Adequate    Awful	Awesome    Appealing Adequate    Awful	Awesome    Appealing Adequate    Awful		Awesome    Appealing Adequate    Awful		
<b>D</b>	Awesome    Appealing Adequate    Awful	Awesome    Appealing Adequate    Awful	Awesome    Appealing Adequate    Awful		Awesome    Appealing Adequate    Awful		
<b>E</b>	Awesome    Appealing Adequate    Awful	Awesome    Appealing Adequate    Awful	Awesome    Appealing Adequate    Awful		Awesome    Appealing Adequate    Awful		
<b>F</b>	Awesome    Appealing Adequate    Awful	Awesome    Appealing Adequate    Awful	Awesome    Appealing Adequate    Awful		Awesome    Appealing Adequate    Awful		
<b>G</b>	Awesome    Appealing Adequate    Awful	Awesome    Appealing Adequate    Awful	Awesome    Appealing Adequate    Awful		Awesome    Appealing Adequate    Awful		
<b>H</b>	Awesome    Appealing Adequate    Awful	Awesome    Appealing Adequate    Awful	Awesome    Appealing Adequate    Awful		Awesome    Appealing Adequate    Awful		
<b>I</b>	Awesome    Appealing Adequate    Awful	Awesome    Appealing Adequate    Awful	Awesome    Appealing Adequate    Awful		Awesome    Appealing Adequate    Awful		
<b>J</b>	Awesome    Appealing Adequate    Awful	Awesome    Appealing Adequate    Awful	Awesome    Appealing Adequate    Awful		Awesome    Appealing Adequate    Awful		

<b>K</b>	Awesome Adequate	Appealing Awful	Awesome Adequate	Appealing Awful	Awesome Adequate	Appealing Awful		Awesome Adequate	Appealing Awful		
<b>L</b>	Awesome Adequate	Appealing Awful	Awesome Adequate	Appealing Awful	Awesome Adequate	Appealing Awful		Awesome Adequate	Appealing Awful		
<b>M</b>	Awesome Adequate	Appealing Awful	Awesome Adequate	Appealing Awful	Awesome Adequate	Appealing Awful		Awesome Adequate	Appealing Awful		
<b>N</b>	Awesome Adequate	Appealing Awful	Awesome Adequate	Appealing Awful	Awesome Adequate	Appealing Awful		Awesome Adequate	Appealing Awful		
<b>O</b>	Awesome Adequate	Appealing Awful	Awesome Adequate	Appealing Awful	Awesome Adequate	Appealing Awful		Awesome Adequate	Appealing Awful		

Other Notes:

## Soap Testing - What Makes a Good Soap?

**Your station starts clean. Your station must finish clean.**

1. Acquire your 1-2 samples of hardened soap from the lettered cup on middle table.
2. Using the brown board and the cutting tool at your station, carefully slice each soap sample into small testable pieces. We will need at least 6 slices of each soap. **DO NOT SLICE YOUR FINGERS INTO PIECES. WE NEED 5 COMPLETE FINGERS ON EVERY HAND WHEN STEP 2 IS DONE. REPORT ANY MISSING FINGERS.**
3. Put slices in the lettered cup and return to middle table.
4. Get organized! Open your Google Doc (found on Google Classroom) and share with your partners. Head to the Data section of your Google Doc and prepare to record data.
5. Acquire 1 chunk of each soap sample. Keep the samples organized by letter. Conduct all observations as follows:
  - A. Partly fill a well on the well plate with water using the pipettes. Put ~ 2 pipette's worth of tap water (in beaker) into the well. Cut off a shaving of the sample and place in the well. Know which well is which letter. Repeat quickly for all soap samples. Wait >5 minutes before observing appearance of shavings. Conduct other tests during the wait time.
  - B. Observe the smell and appearance of the soap. Anything objectionable? Favorable? Record observations.
  - C. Use the soap to clean your hands. Make observations of lathering ability, after-wash feel, and overall feel. Record observations.
  - D. With a wet piece of soap, conduct a pH test. Place the pH paper on the surface of the wet soap. Observe the color change and record the pH value.
  - E. Complete the test you started in Step #2.
  - F. Record any other observations that you feel are important!
6. Clean your station. All solids (soap, soap shavings, pH paper go in **RED CUP**). Return to the front of room for decision-making and begin work on your Soap Report.