

Monday, March 11, 2019

Your Learning Goal: Students will be able to define the force of tension through their experience of liquid surface tension on a penny.

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You look Tense - 39L + R

- Catalyst (39L): What do you observe when looking at these 4 photos?



Homework:

Quiz Retake Pack time
Tuesday 3/12!!



Agenda:

1. Catalyst
2. Penny Lab
3. LEAF

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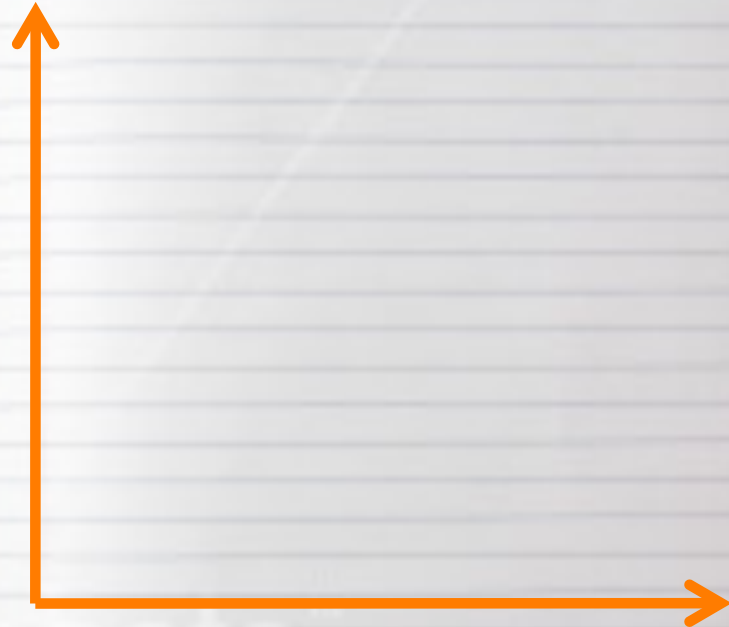
<u>Date</u>	<u>Assignment</u>	<u>Pg #</u>
2/19/19	Runner's Speed	34L + R
2/22/19	Velocity & Vectors	35 L + R
3/1/19	Forces Everywhere!	36 L +R
3/5/19	How high can I jump?	37 L + R
3/7/19	Rules of (Gravitational) Attraction	38 L + R
3/11/19	You Look Tense	39 L + R

3/11/19

Catalyst:

Make qualitative observations after observing the following images. One Observation per image minimum.

You Look Tense

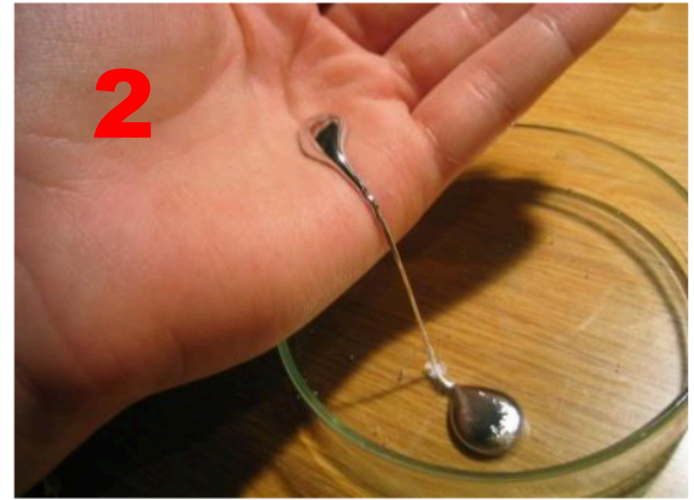


39L

39R

Catalyst

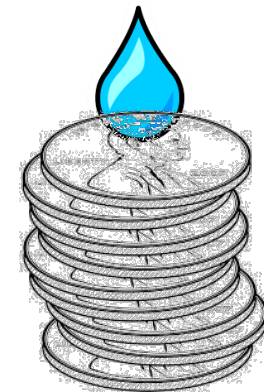
Make qualitative observations after observing the following images.



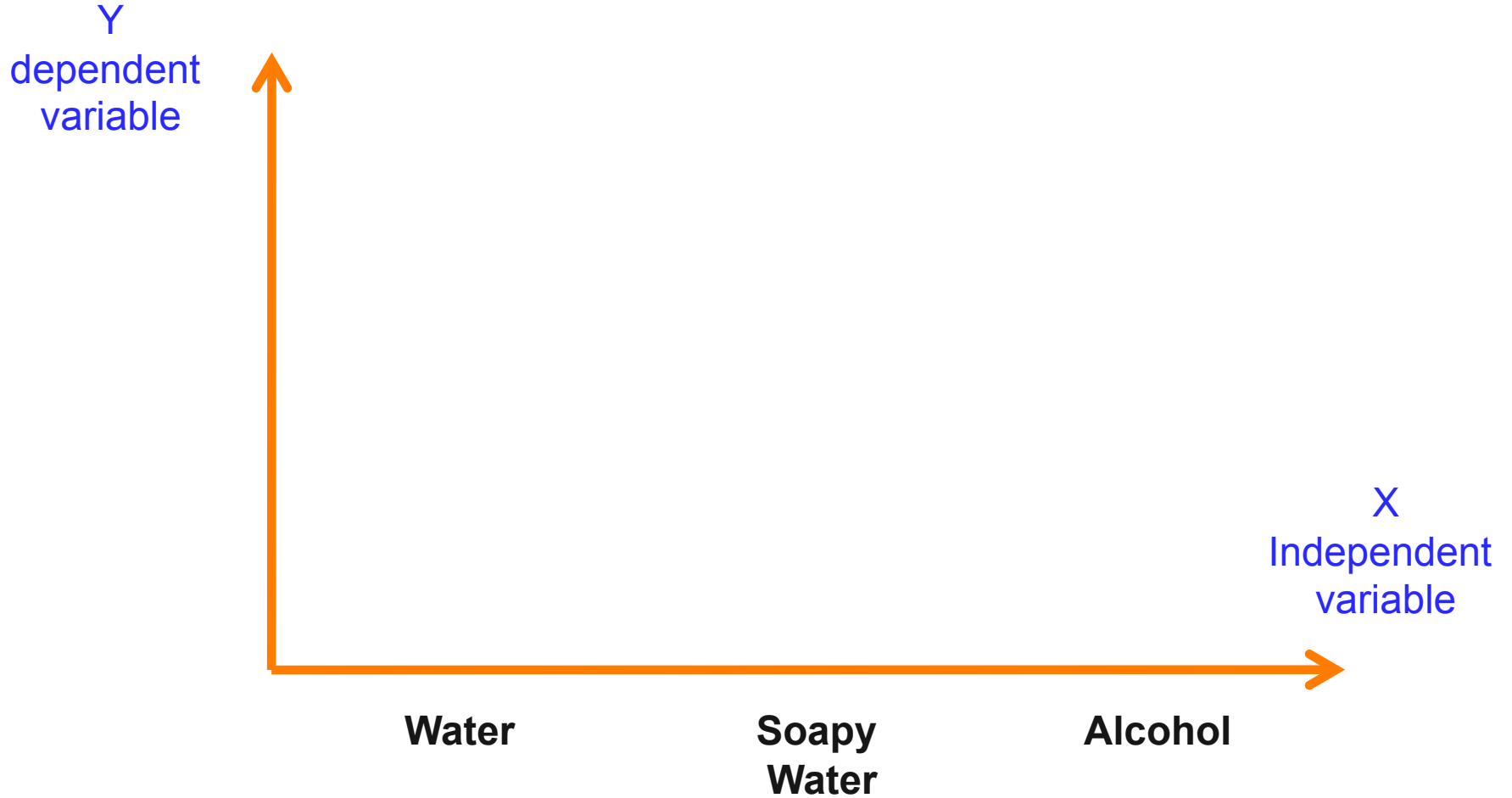
39L

Lab Procedure

- Fill a dropper with **water**, **soapy water** OR **rubbing alcohol**.
- Place the penny, heads up, on top of a paper plate.
- Hold your dropper about 1-inch above the penny and add drops of your liquid to the surface of the penny until it overflows.
- Record the number of drops of liquid the surface of the penny can hold in the table labeled “Trial 1”.
- Repeat procedure 1 more time, “Trial 2”



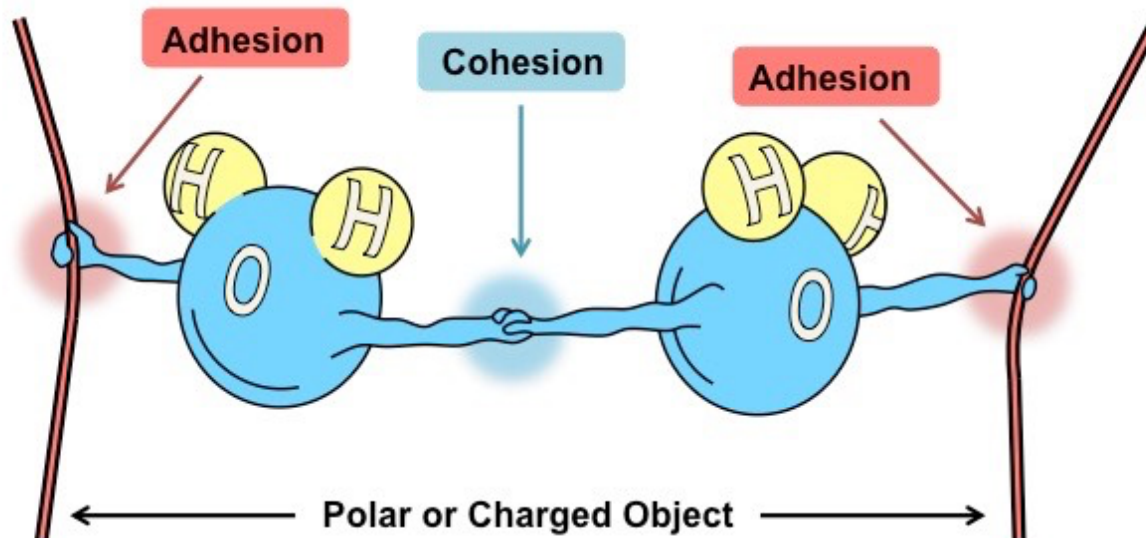
Title: Number of drops of different fluids able to fit on the top of a penny



Cohesion

Water molecules are attracted to other water molecules.

- The oxygen end of water has a negative charge and the hydrogen end has a positive charge.
- The hydrogen of one water molecule are attracted to the oxygen from other water molecules.
- This attractive force is what gives water its cohesive properties.



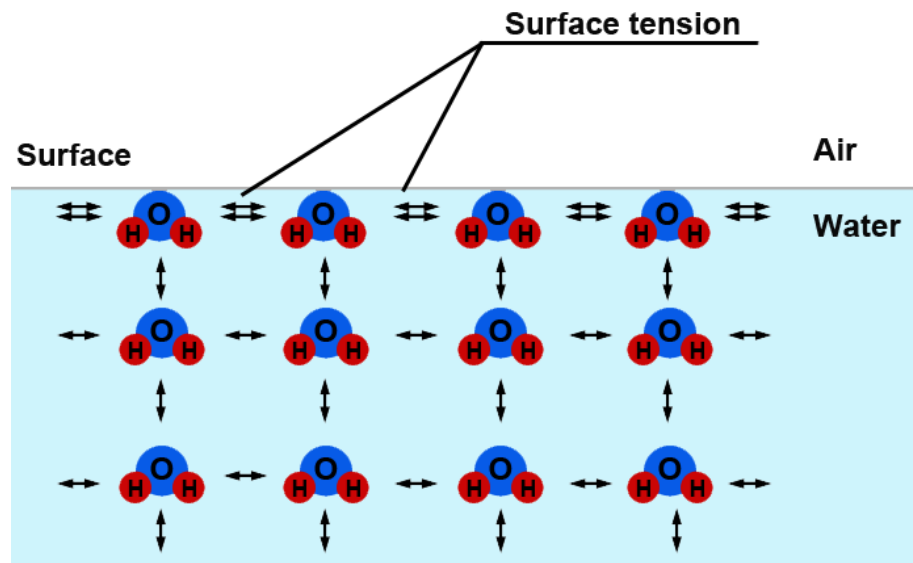
Surface Tension

Surface tension is the name we give to the cohesion of water molecules

At the surface of a body of water. the cohesion of water molecules forms.

A surface "film" or "skin."

Some substances may reduce the cohesive force of water, which will reduce the strength of the surface "skin" of the water.



https://www.youtube.com/watch?v=wJ_rbsytjl&frags=pl%2Cwn

3/11/19

Catalyst:

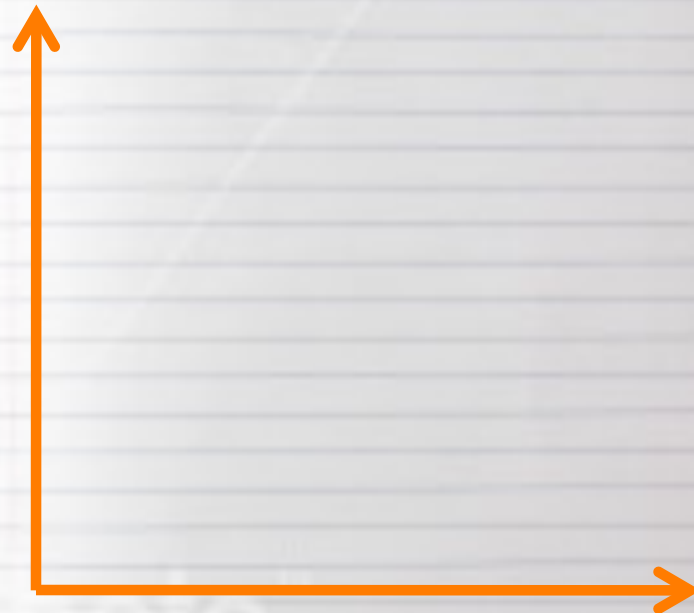
Make qualitative observations after observing the following images. One Observation per image minimum.

LEAF:

Describe the outcome of our 'penny lab'. Use our new vocabulary of cohesion and surface tension in your response.

39L

You Look Tense



39R