

Bubbles

		Define the following terms: Soap bubble
	b.	Hydrophilic
	c.	Hydrophobic
	d.	Surface tension
	e.	Minimum energy
	f.	Minimum surface
_		low do the following weather factors affect the life of a bubble and how? Humidity
	b.	Temperature
		Bul

c.	Wind
d.	Precipitation
	Take a model or drawing of a soap molecule. Show why the molecule is ther hydrophilic or hydrophobic.
4. L	Date completedist safety rules about bubble blowing
	urface Tension Explain what causes surface tension.
b.	Conduct an experiment to determine if soapy water has higher or lower surface tension. Date completed
	Vands: Explain what types of material work best for the loop of large bubble wands.
b.	Construct a wand to make large bubbles. Date completed

	а.	What water quality works best for bubbles? What impurities negative affect bubble quality?
	b.	What soaps are best for bubble solution?
	c.	What is the purpose of glycerin or corn syrup in a solution?
	d.	Learn a formula for a bubble solution and mix a batch of bubble solution.
		Date completed
	e.	Evaluate your bubble solution and make a better recipe if necessary
		Date completed
8		xperiments: Show what happens when bubbles meet bubbles? How does this illustrate minimal energy and minimal surface?
		Date completed
	b.	What causes colors in a bubble? Demonstrate constructive and destructive interference.
		Date completed
	c.	What shape are bubbles and why? Do an experiment to illustrate the answer.
		Date completed