

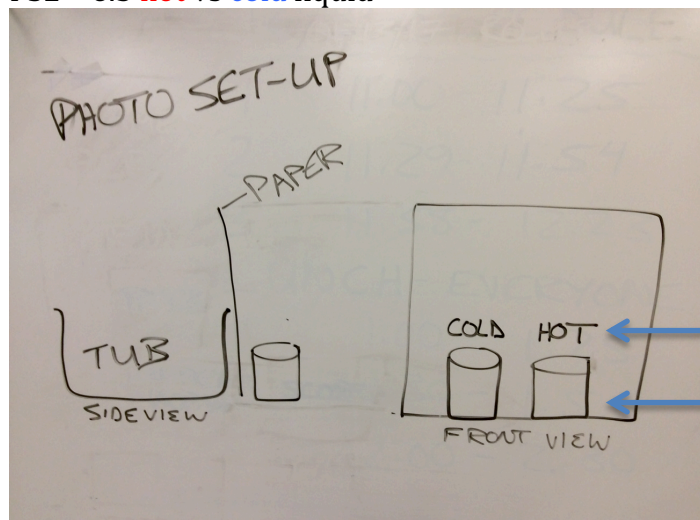
PS2 – 6.3 hot vs cold liquid

Name:

Date:

Per:

Table:



Everyone – iPad → 6.3 directions → download into Notability science folder

Jobs by seat

A – Paper from front counter. Set-up the paper and tub as shown above.

B – get _____ ml hot tap water – let it run until you think it's as hot as it will get. This is approx. 150 F

C – get _____ ml cold water from tub on front table – about 40 F

D – you are in charge of the food coloring

Steps

1. Everyone's iPad ready to take photos.
2. Person D – when everything is set-up correctly, and the rest of your group is ready, add one drop of food coloring to each beaker.
3. Everyone take 4 photos: right after adding the food coloring, 20 sec, 40 sec, & 120 sec (2 min).
4. Rinse beakers – place upside down in tub, organize tub, place tub in center of your table
5. Insert your photos into the table on the next page. Write detailed captions describing your observations of the dye in each beaker. Your captions should include percents or fractions.

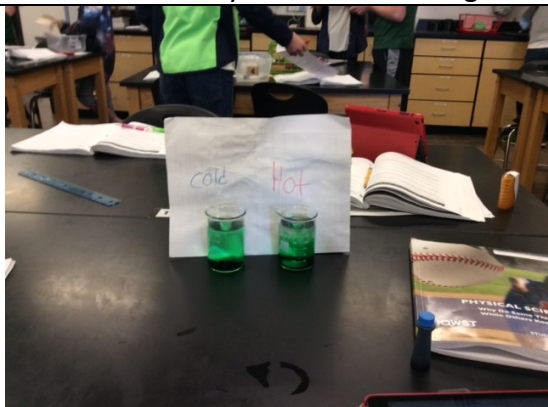
Examples: The dye in the hot water is mostly in the top 1/3 of the beaker. About 75% of the dye in the cold water has sunk to bottom 10% of the beaker. The dye in the cold water has spread to about 50% of the water, but it is mostly in the middle third of the beaker. The dye in the hot water spread to about 80% of the water, this is about 3 times more than the dye in the cold water.

6. Show me your notability document.

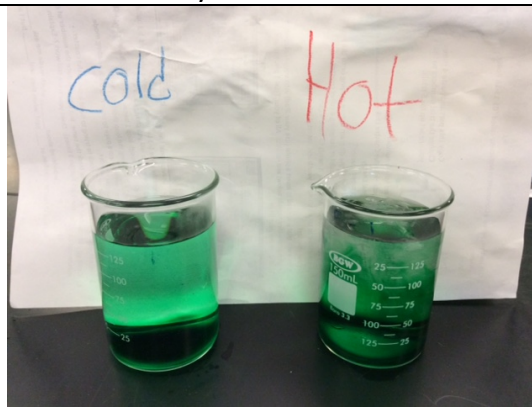
7. Work on SN pages 79-80

Sample photos

Bad – too far away = too much background



Good – easy to see fluid in beakers



PS2 – 6.3 hot vs cold liquid

Name _____ Date: _____ Table _____ Per: _____

Photo	Description
	1. Time = 3 sec • Dye in Cold H₂O . . . • Dye in Hot H₂O . . .
	2. Time = 20 sec • Compare the beakers in this photo • Compare to the previous photo
	3. Time = 40 sec
	4. Time = 120 sec

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One sentence summary of your observations:

The dye in the hot water . . .