

Name: _____ Date: _____ Per: _____ Table: _____

IC2 – 2.2 Solubility of Fat & Soap

Substance	Observations in Oil	Observations in Water
Fat		
Soap		

2.2 Procedures

❖❖❖ Only one person from your table up at a time. ❖❖❖

A/B side will test fat

C/D side will test soap

Materials – 100 ml graduated cylinder, 100 or 150 ml beaker, wooden stir stick, cooking oil, water, fat (Crisco), & bar soap (broken up).

Procedures

1. Turn on your hotplate to setting “3”
2. Use a graduated cylinder to measure 50ml of water or oil into the beaker.
3. Obtain a pea-sized chunk of the test substance (approx. 1 x 1 x 1 cm).
4. Place beakers on hotplate for 30 seconds. Remove and place on wood.
5. Place test substance in beaker with liquid and stir 50 times with the wooden stir stick.
6. Record your detailed observations in your SN. Focus on changes observed.
7. Take a photo & put it in the table above.
8. Place any non-soluble test material (soap or fat chunks that did not dissolve) in the waste bowl on the front table.
9. If you tested with oil, pour the oil into the oil waste container on the front counter. If you tested with water, go to step 10.
10. Wash your beaker at your assigned sink using soap and hot water. Rinse it three times.
11. Repeat steps 1 - 9 using the other test liquid.
12. Clean-up: wooden stirrers in the garbage, beakers upside down in your tub, work area wiped down with a damp rag.
13. Tub centered on your table.
14. SNs in tub by door.
15. Standing silently behind your chair so I can dismiss you by table.