Chemistry 20: Glassware Washing Lab

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Partner \_\_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_\_\_\_\_\_\_

This is a pass / fail Lab. You must be able to demonstrate that you can properly wash, rinse, and dry glassware.

Equipment needed:

Beakers Erlenmeyer Flask

Volumetric Flask Test Tubes

Graduated Cylinder Evaporating dish

Funnel Drying Rack

Scrub Brush Wash Bottles

**Pre lab information: Wash and Rinse Procedure:**

When washing glassware, use **warm soapy water** and the **appropriate scrub brush**. If you squirt soap directly into a glass container or shake the container, *massive amounts of bubbles form and rinsing becomes very long.* Remember that clean glassware = good lab results. If there is residue from masking tape on the outside, use steel wool to remove the residue.

Procedure:

1. Make a **dilute soap solution** by putting a few (no more than 4) drops of liquid dish soap into a 400 mL beaker. Add 250 mL of warm water. This will be your ***stock soap supply*** for the entire lab.

2. Choose a piece of the assigned glassware.

3. Remove any tape or labels that may be on the glassware. If necessary, use steel wool to remove the really STUCK on things

4. Add about 4 drops of dilute stock soap solution. Fill the glassware about half full with water. Use the scrub brush to clean all surfaces.

5. To rinse, pour the wash water down the drain. **Swirl** with small amounts of tap water. Do this several times and pour the water down the drain. Wash all surfaces.

6. The final rinse should be done with distilled water from wash bottles. Never fill a wash bottle from the tap!! Only fill it with distilled water

7. Place the glassware upside down on the drying rack and let it air dry.

8. Repeat the process for one of each of the pieces of glassware listed.

9. Have the instructor inspect to see that they meet the clean test.

List each piece of glassware that you have cleaned. The instructor must initial to show that it has passed her ‘clean’ inspection.

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| Glassware | Clean on 1st inspection | Clean on 2nd inspection | Unacceptable |
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Choose a minimum of 10 different pieces of ‘glassware’ and fill in the information below. Use the equipment catalogue provided to find costs for the equipment.

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| --- | --- | --- | --- | --- |
| Name of equipment | Sketch of equipment | Purpose(s): storage, pouring, measuring, mixing, etc | Cost | Made of: porcelain, metal, glass, etc. |
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