



DOCUMENT TITLE: Weighing Objects Using a Laboratory Scale			
DOCUMENT NUMBER: SOP#18-1-001	REVISION #: 1	REVISION DATE: February 13, 2018	EFFECTIVE DATE: February 13, 2018
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REVISION RATIONALE: SOP#18-1-001 Updated weight limit from 450g to 500g to match specifications in manual.			

**OBJECTIVE:** To guide a user through weighing chemicals using a laboratory scale.

**MATERIALS:** Chemical samples to be weighed.

### EQUIPMENT AND SUPPLIES:

1. VWR Model 500P Scale
2. Weigh boat
3. Scoopula

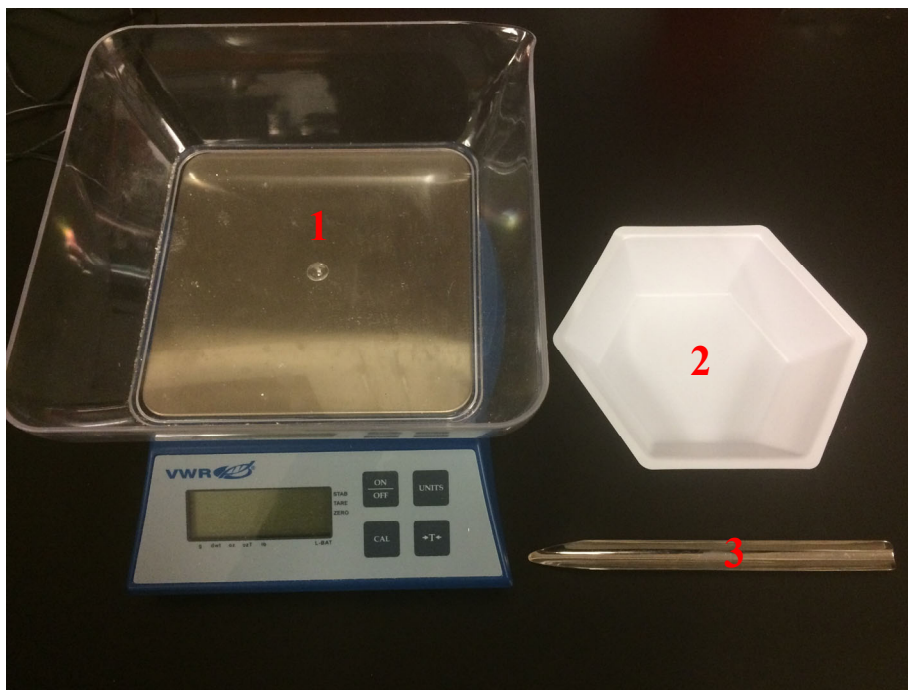


Figure 1: Equipment needed to perform SOP



# Research Experience and Mentoring

## SOP Handout 2: SOP for Weighing a Sample

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### PROCEDURE:

**Note: The weight limit on the scale used in this SOP is 500 grams. Never exceed this limit or the scale will be damaged.**

1. Turn the scale on by pressing the “On/Off” button. Make sure the scale is on a level surface.



Figure 2: Turning on the scale

2. Place weigh boat in the center of the scale and press the “T” (tare) button, this resets the scale to zero.



Figure 3: Taring the scale



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- The default units are on this scale are in grams. If necessary, you may change the units displayed by selecting the “Unit” button. The display will cycle through the available readouts with each button press, shown in figure 4.
- Add chemical sample to the weigh boat using a clean scoopula. Add small amounts to achieve the target weight. Wait a few seconds for the stabilization indicator in the top right corner of display to appear before adding more sample, shown in figure 5. Never put excess sample back into stock chemical containers.

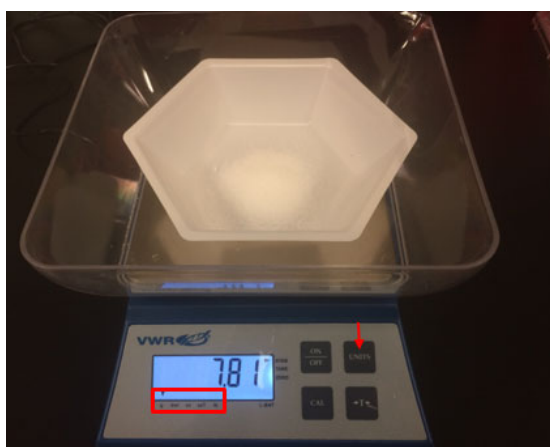


Figure 4: Changing the units displayed

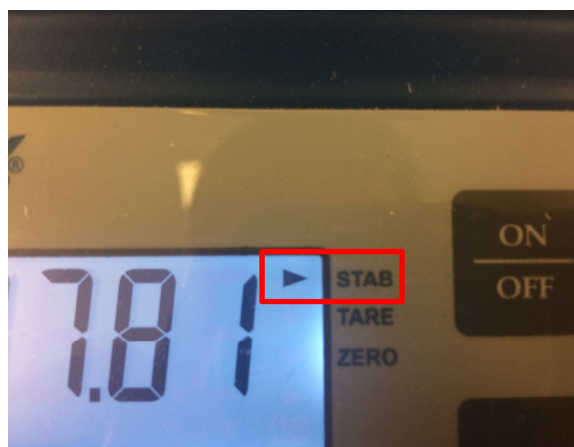


Figure 5: Stabilization indicator

- If weighing additional samples, remove the weigh boat and repeat steps 2-4. If finished weighing chemicals, remove the weigh boat and turn the instrument off by selecting the “On/Off” button.
- If chemicals were spilled in the plastic tray during weighing, remove tray from the scale and wash with soap and water before returning.