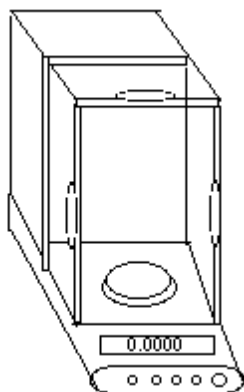


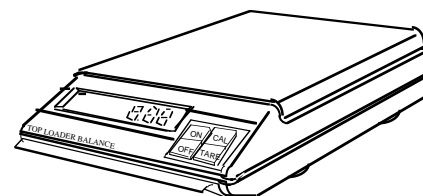
Appendix #1 Balances

Introduction

The mass in grams is measured with top loading balances (nearest 0.01 g) and analytical balances, the ones with sliding doors (nearest 0.001 or 0.0001 g).



Analytical Balance



Top-Loading Balance

1. Solid objects can be weighted directly. Powders require weighing papers. Liquids are weighed in small glassware such as vials or weighing bottles. Be sure to put any containers on the balance before taring.

CAUTION: *Never* overload balances. Maximum load without damaging less sensitive balance is 400 ± 0.01 g, and the other one, 300 ± 0.001 g.

2. The balance is reset by pressing the "TARE" key on the front face. This should give a digital display of either 0.00 g or 0.000 g.

Note: "Taring" is zeroing a container prior to adding a sample. (When the sample is placed in the container the displayed number is the weight of the sample)

3. Place the sample you are weighing near the center of the balance pan and record the mass directly from the digital display.

4. Always clean the balance pan after you have used it.