**Genetics course skill assessment protocol:**

1. Materials:

1) Micropipettes (P-200) (1/team)

2) Disposable tips (1 box for P-200 for each team)

3) Distilled water in a beaker (1/team)

4) Beakers (1/team)

5) Analytical balance (±0.1 mg) (1/class; inside the preparation room; please do NOT move the balance)

2. Procedure:

1) The instructor will use tape to label a 200 l micropipette with a unique number for each team, such as #1, #2, #3, #4, #5, and #6 (six teams). The labels need to be kept on the micropipettes for the entire semester.

2) Place a small weighing boat on the stainless-steel platform of the analytic balance and adjust the weight to zero.

3) Set the volume of the micropipette to 150 l and transfer 150 l of distilled water onto the weighing boat.

4) Close the door of the balance and record the value on the balance display after it is stabilized.

5) Repeat step 3) and 4) two times (the weight display of the balance needs to be adjusted to zero every time).

6) Eject the tip into the beaker.

3. Results:

|  |  |
| --- | --- |
| Micropipette number: | Weight record (mg) |
| 1st time |  |
| 2nd time |  |
| 3rd time |  |