**AP Bio 12 Transpiration Lab**

Materials:

* Packs of marigolds (1 pack of 4/group – 12 groups)
* Aluminum foil
* Saran wrap
* Water squirt bottle
* Masking tape
* Growing lamp (heat lamp?)
* Empty aquarium
* Fan
* Electronic balances (as many as possible)
1. Each group removes their marigolds from the plastic packs and wraps the entire root bundle with soil in aluminum foil. Weigh each of the 4 and record mass.
2. Place one marigold in each of the 4 stations, make sure you can identify yours later

Station 1: Control – by the window

Station 2: Humid – in an aquarium with saran wrap on the top. Mist the aquarium with water.

Station 3: Fan – plants in front of a going fan

Station 4: Growing light – plants under direct growing lamp

3. Measure the mass of the plants (with aluminum foil still on) for the next week and record the change in mass.