Sci 9 **Observation Skills Practice** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Partners: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Skills:*** *Planning and Conducting (making detailed observations and measurements)*

**Background:** Accurate observations are a critical in any experiment. Observations can be either Quantitative (using measurement) or Qualitative (described using words).

**Purpose:** To practice observational skills by using descriptive vocabulary and accurate measurements.



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| --- | --- | --- | --- |
| **Emerging**  | **Developing** | **Proficient** | **Extending** |
| The leaf is green | The leaf is green and heart-shaped  | The leaf is mostly heart-shaped with netted veins coming off some main ones that originate from the top of the heart shape. The leaf is mostly green with some yellow patches.  | The leaf is mostly heart-shaped with netted veins coming off some main ones that originate from the top of the heart shape (palmate pattern).The leaf is mostly green with a few tiny yellow patches randomly appearing throughout but not as a pattern, suggesting disease, bug infestation or some watering problems. Leaf is still green enough to function well. |

**What to do:**

As a ground search the Byrne Creek Ravine area and select a plant. Without harming the plant, select one or two representative samples (leaves, flowers, berries, cones, etc) that are typical of that plant. Bring back 3 of the same sample to make observations from. We will make our observations in class. Discuss as a group but your responses should be in your own words.

**Observations:**

Plant Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sample type (leaf, flower, cone): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Quantitative Observations (measurements):

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Qualitative Observations (descriptions):

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