



# Leaf Collection

Due Friday, December 9<sup>th</sup>



Each student is required to collect and classify leaves. Each leaf needs to be organized into a leaf notebook. Leaves will be placed into the notebook in two ways: Leaf Rubbings and Ironing. Students need to collect at least 30 leaves total. (15 rubbings and 15 ironing) Each leaf needs to be labeled using the following format:

This leaf arrangement is \_\_\_\_\_ (2 pts) \_\_\_\_\_.

It has \_\_\_\_\_ (2 pts) \_\_\_\_\_ margins.

Its attachment to the branch is \_\_\_\_\_ (2 pts) \_\_\_\_\_.

The leaf venation is \_\_\_\_\_ (2 pts) \_\_\_\_\_.

I found this plant \_\_\_\_\_ (2 pts) \_\_\_\_\_.

Plant name \_\_\_\_\_ (2 pts) \_\_\_\_\_ (extra credit)

Scientific name \_\_\_\_\_ (2 pts) \_\_\_\_\_ (extra credit)

\*All leaf rubbings and ironings will receive 10 points each. Make as many copies of the attached leaf cards or make your own (but keep the wording the same) Extra credit is given for the plant's name and scientific name.

Extra credit will be given for more than 30 leaves and/or for names of plants that the leaf came from.

1. To begin, Reread pages 50-53 in the textbook.
2. Make copies(or your own set) of the leaf collection note cards. Make enough for each leaf in the notebook.
3. Prepare four baggies for easy sorting.

When you select a leaf, **BEFORE** you pluck it from the plant, notice the leaf arrangement. Place is into one of four plastic baggies. One bag labeled **alternate**, the second labeled **opposite**, the third labeled **whorled**, and the fourth labeled **rosette**. If you do this, you will get all this information correct in your notebook. Keep the leaves moist by placing them between damp paper towels inside the bags. After collecting the leaves, you will need to preserve them

by rubbing or ironing. Glue or tape leaves w/labels on white paper and organize into an appropriate notebook.

## How to Make a Leaf Rubbing (at least 15 leaves)

1. **Find a good leaf to draw from.** Look at the texture and features on the leaf. Are there holes on it? Has it dropped on the ground recently or has it been on the ground for some time?
2. **Place the leaf on a hard surface.** A good suggestion is to use a **notebook** or cardboard. Put the leaf "veins" towards you (the bottom of the leaf).
3. **Put a white sheet of paper on the leaf.** To prevent the leaf from moving, you can also tape it down on the hard surface.
4. **Use a crayon or pastel on its side and gently color on the layered paper over the leaf.** Notice that you'll be "drawing" the leaf on the paper.

## Ironing Leaves (at least 15 leaves)

1. Choose thin leaves with a low moisture content, that haven't begun to curl.
2. Sandwich your leaves between 2 sheets of waxed paper.
3. Cover your ironing board with an old cloth rag, so you don't get wax on the board.
4. Place the sandwich on top of the rag.
5. Place another old cloth rag on top of the sandwich.
6. Heat the iron to high, but NO STEAM.
7. Slowly run the iron back and forth over the cloth rag. Don't press too hard to begin with, or the leaves will shift. Once the paper has begun to seal, use the full weight of the iron and hold it for about 4-5 seconds on each spot.
8. Lift the rag to see if the waxed paper has melted and sealed. The leaves will be much clearer when the wax has melted.
9. Allow the sandwich to cool, then cut out individual leaves. Leave a small margin around the leaves so the waxed paper stays sealed.

### Leaf Notebook Rubric

Number of Leaf Rubbings	_____ x 5 = _____
Number of Ironed Leaves	_____ x 5 = _____
Corrections	_____ x 2 = _____
Extra Credit Points	_____

Total Score \_\_\_\_\_ Grade \_\_\_\_\_

**Make it neat and organized.**

This leaf arrangement is \_\_\_\_\_.

It has \_\_\_\_\_ margins.

Its attachment to the branch is \_\_\_\_\_.

The leaf venation is \_\_\_\_\_.

I found this plant \_\_\_\_\_.

Plant name \_\_\_\_\_ (extra credit)

Scientific name \_\_\_\_\_ (extra credit)

This leaf arrangement is \_\_\_\_\_.

It has \_\_\_\_\_ margins.

Its attachment to the branch is \_\_\_\_\_.

The leaf venation is \_\_\_\_\_.

I found this plant \_\_\_\_\_.

Plant name \_\_\_\_\_ (extra credit)

Scientific name \_\_\_\_\_ (extra credit)

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