



Life Science Leaf Collection Project

1st Quarter 2022

YOUR NAME

PARENT SIGNATURE ACKNOWLEDGING THIS PROJECT

There are several reasons for assigning a leaf collection as part of a Life Science course. In Life Science we study many aspects of living organisms. A leaf collection is an interesting way of showing some of the knowledge gained from studying plants, in particular trees. In order to identify most leaves of a living organism, the skill of classification is practiced. Attached are various ways leaves are classified in various categories. Furthermore, making a leaf collection is an opportunity for families to get out in nature and to work together for a common goal.. Besides all of this, this assignment can be fun!!

TIMELINE AND REQUIREMENTS:

ALL LEAVES MUST BE COLLECTED AND PRESSED BY:

Friday, October 7, 2022

ALL LEAVES ARE IDENTIFIED AND DESCRIPTION LIST FINISHED

BY:

Friday, October 28, 2022

MOUNTING BOOK COMPLETED BY:

Wednesday, November 2, 2022

PROJECT TURNED IN BY:

Thursday, November 3, 2022

- **REQUIREMENT --- A COLLECTION OF 20 DIFFERENT LEAVES, PRESSED, CLASSIFIED AND MOUNTED.**

Neatness and Accuracy are an essential component to this project!

POINTS TO REMEMBER:

- The absolute best time to identify leaves is **WHILE THE LEAVES ARE STILL ON THE TREES!!**
- I suggest that you begin collecting your leaves early before the leaves come down and the insects infest the leaves....
- Use the handouts provided for the various methods of classification.
- To make this assignment **FUN** and more interesting include family.
- The idea here is to collect a few leaves, not to terrorize the trees or be destructive.
- If you want to use leaves from someone's personal property, be sure to **ASK PERMISSION!**
- This is a **REQUIRED** component of this class and must be completed in the time line given.
 - **DO NOT** wait until the last minute to start this project!
 - Include **TREE LEAVES ONLY!**

COLLECTION OF THE LEAVES:

- Choose leaves from **TREES** only!
- Collect leaves on a sunny day, if possible, after the dew has dried.
 - Carefully remove an entire leaf, not a leaflet, from the tree
- Collect **GOOD LEAVES** -ones that have not been damaged by insects, disease, or the sun.
 - Collect **GOOD LEAVES** - ones that are not ripped or torn
- You will be displaying two leaves from the same tree, the front view and the back view. So, it would be wise to collect at least four leaves from the same tree, in case of damage through the pressing or mounting process.

PRESSING OF THE LEAVES:

- Pressing is necessary to remove the moisture without curling the leaves.
- Press the leaves within an hour after collecting so they do not dry out.
 - Do not FOLD the leaves
- Place individual leaves in between paper towels or newspaper. Then press the leaves and paper towels between the pages of a large book.
- After all the leaves have been placed in the books, place all the books on top of each other, for additional weight.
 - Allow 7 - 10 days for the pressing
- Check the leaves after a couple of days to see if the paper towels need to be changes because of moisture.

MOUNTING GUIDELINES:

- Use standard white construction paper to mount your leaves. (Your teacher will supply the paper) Make sure your sheets are uniform in size and all are going the same direction (landscape or portrait)
- Use Rubber Cement (Your teacher will supply the Rubber Cement) to adhere two leaves, from the same tree, to each page - one showing the upper surface of the leaf and the other showing the under surface of the leaf.
 - Each page should have only one type of leaf on it.
- Include on each page the description list, as given below. This list must be neatly typed and include for each leaf.
- Arrange the leaves so that they do not overlap each other and so there is room to glue the description list. The leaves should look nice on each page.
 - On compound leaves, mount the topside of the complete leaf and then the underside of a SINGLE LEAFLET. Make sure the leaflet comes from a different leaf - not taken from the one you are mounting - to receive full credit
- LET THE PAGES DRY COMPLETELY BEFORE ASSEMBLING THEM TOGETHER IN YOUR COLLECTION OR THE PAGES/LEAVES WILL STICK TOGETHER!!
- Once the pages are dry, assemble them, and then number the pages in the lower right corner with black ink.
- Make a front and back cover with different colored construction paper.

- Include the following on your cover:
 - TITLE (Tree Identification Through Leaves)
 - Your Name and Grade
 - Fall 2022
 - Any other "information" to make an interesting cover
- Use a hand-held hole punch to punch holes in the book and bind the pages using ribbon, string, etc to assemble the collection in a scrapbook.
 - DO NOT COVER THE LEAVES WITH PLASTIC!!!

DESCRIPTION LIST / WRITTEN REQUIREMENTS
(PER LEAF - PER PAGE):

- Common Name
- Scientific Name
- Date of Collection
 - Leaf Shapes:
 - Leaf Margins:
 - Leaf Venation:
- Leaf Arrangement/Compound Leaf:
 - Leaf Attachment:
- List at least two products consumers receive from this type of tree
- List at least two interesting facts about the tree and its leaves.

***HAVE FUN AND ENJOY
 GOD'S BEAUTIFUL
 AUTUMN WEATHER AND
 CANVAS OF BEAUTIFUL
 FALL FOLIAGE!!***

