

Term 1 Project

Classification Collection



Learning Targets: St 5 Obj. 1 Classify based on observable properties.
St 5 Obj. 2 Use and develop a simple classification system.

Purpose: Classification reflects orderly patterns and observable distinctions among objects and organisms. In this project, you will observe differences in structure by identifying a few easily distinguishable characteristics of the objects/organisms you choose to collect.

Assignment Description: Imagine yourself a scientist of taxonomy like Carolus Linnaeus or Aristotle. You have just been given the charge of **identifying, classifying, and naming** a group things found on the Earth. Your assignment will be to collect at least 10 items of your choice and create a classification tree and key for your collection. You will identify, classify and name your 10 items. This is a major assessment for the classification unit. You will get the chance to present your collection project to the rest of the class on the due date. The 10 items you collect CAN BE LIVING OR NON – LIVING.

Points: 60 points

Due Date: _____ 2016

Requirements:

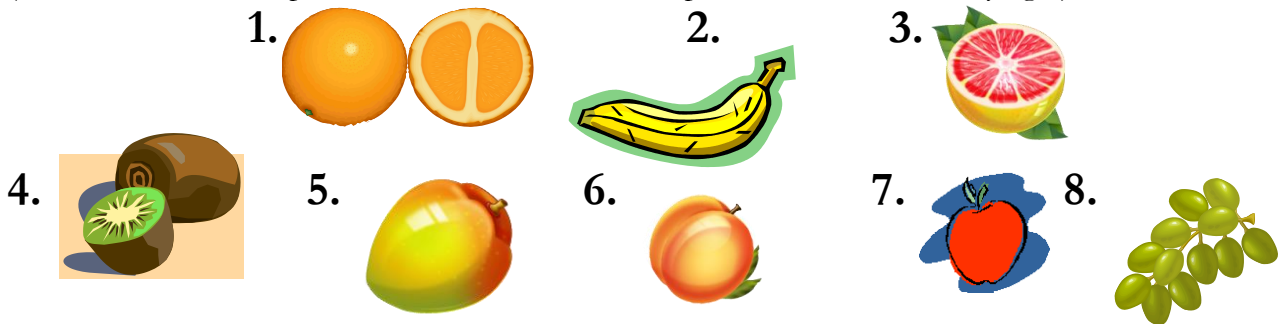
1. Your final collection should include 10 items of whatever you decide to collect and should be organized into a safe container of some sort.
2. You should turn in a classification tree and key for your chosen collection items on the day the collection is due. Don't worry about how to do this. We will practice developing trees and keys together in class several times and long before this project is due. Your finished project will simply prove your mastery of the concepts.
3. Your finished collection should take up minimum space, should not be breakable, or too valuable. You will be responsible for guarding and protecting your collection. Be careful!
4. You **do not** have to spend money to complete this project. Be creative and try not to spend money.
5. The groups you create in your classification tree and key for the project must be based on **STRUCTURAL SIMILARITIES** of the items.

Collection Ideas

1. The best part about this collection project is you get to choose what to collect. A few ideas may include rocks, leaves, coins, matchbox cars, baseball cards, stamps, insects, rocks and minerals, hats, candy bars, collector's spoons, salt and pepper shakers, sea shells, feathers, souvenirs, candy wrappers, bottle caps and etc. Have fun and be creative!

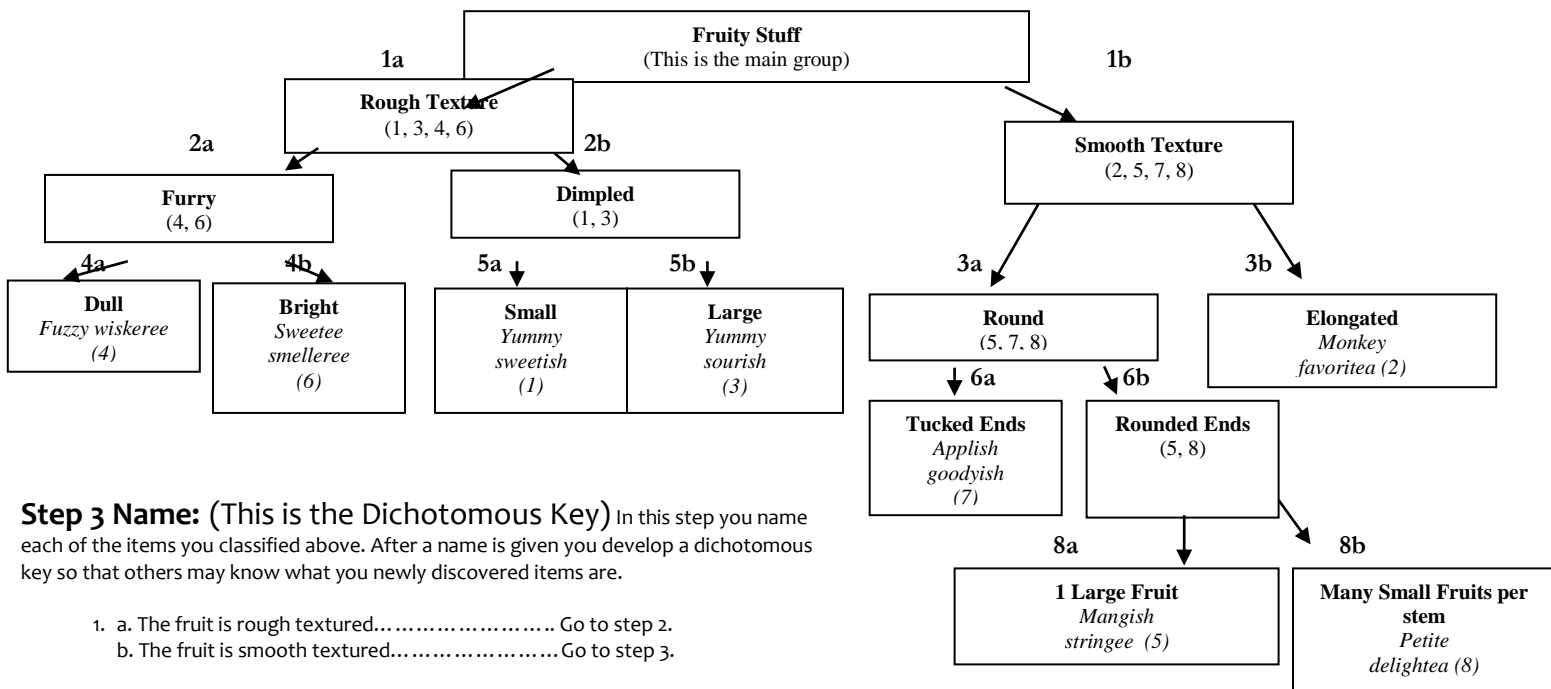
Steps and Examples of How to do the Project

Step 1 Identify: Look closely and observe. Notice any unique structural characteristics (features) that would make each item similar or different from the rest. (I like to number each picture or item so that I can keep track of it while classifying it).



Step 2 Classify: After studying and observing the items for similarities and differences in structure begin separating items by placing similar items into a group together. Begin by simply dividing the whole group into two main groups and then those two new groups into two more groups and so on.....

(Note: Remember to focus on STRUCTURE. This is the tree.)



Step 3 Name: (This is the Dichotomous Key) In this step you name each of the items you classified above. After a name is given you develop a dichotomous key so that others may know what you newly discovered items are.

1. a. The fruit is rough textured..... Go to step 2.
b. The fruit is smooth textured..... Go to step 3.
2. a. The fruit is furry..... Go to step 4.
b. The fruit is dimpled..... Go to step 5.
3. a. The fruit is round..... Go to step 6
b. The fruit is elongated *Monkey favorite*
4. a. The fruit is dull..... *Fuzzy wiskeree*
b. The fruit is bright..... *Sweetee smelleree*
5. a. The fruit is small *Yummy sweetish*
b. The fruit is large..... *Yummy sourish*
6. a. The fruit has tucked ends *Applish goodyish*
b. The fruit has rounded ends Go to step 7
7. a. The fruit has one large fruit per stem *Mangish stringee*
b. The fruit has many small fruits per stem..... *Petite deligthea*