

# Classification Project



## *IN THE YEAR 2525*

Humans, after hundreds of years of constant effort, have successfully polluted all bodies of water on Earth. As a result, almost all previously known species of plant, animal, and other life have become extinct. Through natural selection, genetic engineering, and selective breeding programs, a portion of the Earth has been successfully repopulated.

*The following organisms are all that remain:*

1. Photosynthetic sun-basking sharks. Their green fins have chlorophyll to convert sunlight to energy. (autotrophs)
2. Goldfish that convert pollution to food. (autotrophs)
3. Aquatic humanoids whose main diet is aqua-wheat and basking sharks. They have fins instead of legs. (heterotrophs)
4. Aqua-wheat: one of the few plants that remain, it is similar to algae. (autotrophs)
5. Terrestrial Humanoids with 4 arms, their diet consists of butter-roaches and fuzzy hamsters. (heterotrophs)
6. Tentacled aqua humanoids, they only feed on aqua-wheat and have tentacles for arms and legs. (heterotrophs)
7. Cockroaches that feed on humanoid waste. (heterotrophs)
8. Giant Aqua-spiders that live in water and feed on goldfish and basking sharks. (heterotrophs)
9. Green-haired rats which are photosynthetic. (autotrophs)
10. Parasitic mosquitoes that feed off any humanoid. (heterotrophs)
11. Ten-legged fleas that live on the photosynthetic rats and drink blood. (heterotrophs)
12. Poison Grass - this plant is a hybrid between grass and poison ivy. The plants are toxic to almost everything (autotrophs)
13. Fuzzy hamsters with green hair that use the sunlight to make their food, thought to be related to the rats. (autotrophs)
14. Butter-roaches: genetic engineering created these butterfly-like creatures from cockroaches. Butter-roaches eat poison grass. (heterotrophs)

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## *YOUR ASSIGNMENT*

1. As an alien taxonomist, it is your responsibility to classify these existing organism types.
  - a. Create a classification system using only kingdom, phylum, genus, and species. The other categories have been eliminated since the total number of species has been drastically reduced.
    - i. First, create two kingdoms into which to divide the organisms.
    - ii. Then, for each kingdom, create some phylum categories into which to group the organisms.
    - iii. Create “Latin-sounding” names for each organism. Remember, these will be scientific names and will include the genus and species classification. Example: Sterlingous awesome
2. Draw a picture of what you think each organism looks like. Write the number and the “Latin-sounding” name you gave it next to the drawing.
3. Make a dichotomous key for these organisms so that your fellow aliens can identify them when they come to Earth for their summer vacations. Remember that a dichotomous key is based on APPEARANCE of the organisms. Use your drawings to make the key.