

## Taxonomy 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 humanoids with green chlorophyll-containing hair. (autotrophs)
2. Chemosynthetic dolphins who derive energy for food production from the contaminants in the water. (autotrophs)
3. Aquatic humanoids who work on the dolphins' aquaculture farms (heterotrophic)
4. Aqua-wheat. A heterotrophic crop grown by the dolphins that feeds on bacteria.
5. Legless photosynthetic humanoid space travelers with arm-like tentacles. Visit earth approximately every six weeks.
6. Anaerobic humanoids designed for space living; when in Earth training programs, they must wear deoxygenated Earth suits. (heterotrophic)
7. Cockroaches that feed on humanoid and dolphin excrement. (decomposers)
8. Heterotrophic giant squids that feed on dolphins or humanoids.
9. Green skinned photosynthetic rats.
10. Parasitic mosquitoes that feed off any humanoid.

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### YOUR ASSIGNMENT

1. As an alien taxonomist, it is your responsibility to classify these existing organism types.
  - a. Create latin sounding names for each organism. Remember, these will be scientific names and will include the genus and species classification. Written in this form: *Genus species*
  - b. Create a taxonomic scheme using only kingdom, phylum, genus, and species. The intermediate categories have been eliminated since the total number of species has been drastically reduced. (two Kingdoms are recommended)
2. Illustrate your interpretation of each organism's appearance.
3. Prepare a dichotomous key for these organisms so that your fellow aliens can identify them when they come to Earth for their summer vacations.

BIOL 11 TAXONOMY PROJECT - YEAR 2525

STUDENT: \_\_\_\_\_

* LATIN NAME USE	/ 5
* TAXONOMIC SCHEME	/ 10
* ILLUSTRATIONS	/ 10
* DICHO TOMOUS KEY	/ 10
TOTAL	<hr/> / 35

COMMENT: \_\_\_\_\_

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