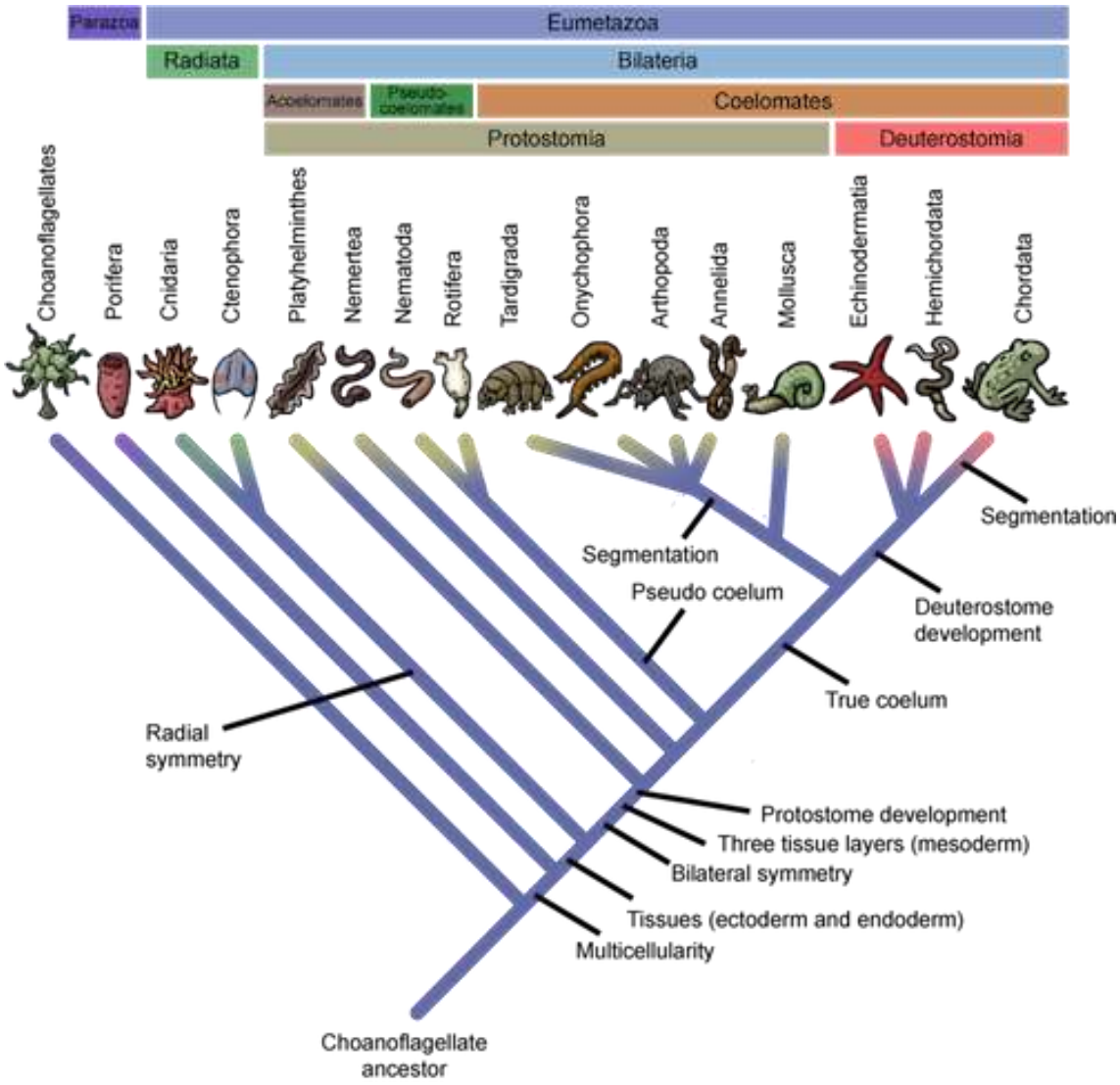
Biodiversity: Animals,

Often, AP Biology students do not have well-rounded knowledge about the diversity of animals, plants, and fungus in the world. This assignment designed for you to explore the biodiversity in the world so that you can generate richer discussions and examples. Use the internet to find the information.

- Activity 1: Defining Animals
    1) Watch the Bozeman Video titled "animals" at the following site: https://www.youtube.com/watch?v=wd-QnKlfZHI
    2) What do all animals have in common?
- Activity 2:
    - Find 1-2 examples of animals in each of the major extant animal phyla listed below (common names are fine)
    - Identify at least one interaction these animals have with another type of animal.
    - Identify at least one interaction these animals have with another type of organisms (plant, fungus, protist, or bacteria).

1) Porifera
2) Cnidaria
3) Platyhelminthese
4) Nematoda
5) Annelida
6) Echinodermata
7) Mollusca, Class Cephalopoda
8) Arthropoda, Class Arachnida
9) Arthropoda, Class Insecta
10) Arthropoda, Class Crustacea
11) Chordata, Class Aves
12) Chordata, Class Mammalia
13) Chordata, Class Reptilia
14) Chordata, Class Amphibia
15) Chordata, Classes Osteoichthyes and Chondroichthyes

Activity 3: Look at the cladogram below. Across the top are terms describing characteristics of animals. Find a basic description of each of the terms.



- Activity 4: Plants
  1) There are 4 major extant plant phyla (although there are at least 12 total). You need to find information on the plant phyla, similar to the info we found on animals:
     - Phyla Names
     - Examples
     - Characteristics
     - Characteristics separating the phyla
  2) Identify the characteristics that scientists use to define plants.
  3) Briefly explain at least 3 major functions of fungus in an ecosystem.

- Activity 5: Fungus
    1) There are 4 major extant phyla of fungus. Find and draw a simple cladogram of the 4 fungal phyla.
    2) Identify the characteristics that scientists use to define fungus.
    3) Briefly explain at least 2 major functions of fungus in an ecosystem.