

Evolution Project

What exactly does evolution mean? Why does it happen? How does it happen? How long does it take? Could it have occurred differently? Is it still occurring?

You will answer these questions and many others during the Evolution Project!

Activities/labs/products of the project

In groups of 3-4:

Notes on classification (✓), comparative anatomy of invertebrates and vertebrates, speciation and natural selection, biodiversity

Inner Fish video series

Ice cream cladogram and Parmashian dichotomous key activities✓

Alu PCR lab write up✓

Hardware sorting cladogram and presentation

Reclassification of hardware activity and presentation after research of different classification theories

Microscope/Prokaryote vs Eukaryote cell lab write up

Protist lab write up

Dissection labs write ups-sponge, jellyfish, squid, worm, grasshopper, perch, frog

Presentations of current research developments in each phylum studied

Evolution book club participation

Model of a transitional species video presentation explaining how each organ system evolved in response to selective pressures in the particular environment/habitat in which they “live”

Final reclassification of hardware activity and presentation

Simulation:Mitigating effects of human activity on biodiversity

Time Line

We will be working on this project through the end of September. A week by week calendar with activities and due dates will be given to you