

2.2 - Physical Anthropology: Evolution

HSP 3U1

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Today's Class

- Natural Selection & Keys to Darwin's Theory
- Natural Selection Application activity (Planet Earth)

Natural Selection

- While watching the video, fill in the chart
(**only watch to 6:00)
- Explain the 4 principles that drive evolution
 - Variation within a species
 - Heritability
 - Thomas Malthus & his principle of population
 - Sex selection



Natural Selection – Recap

Explain the 4 principles that drive evolution:

1. Variation within a species
2. Heritability
3. Thomas Malthus & his principle of population
4. Sex selection

Natural Selection: Steps in Darwin's Thinking

1. All species are engaged in a struggle for survival within their environment
2. Environmental conditions change over time
3. Species also change, through continuous modification
4. Through natural selection, modifications best suited for the environment are preserved (while others die out)
5. Evolutionary change is the natural selection of successful modifications

Application Task:

Planet Earth

Now that you are familiar with the concept of natural selection, and with the steps in Darwin's thinking process, it is time to apply this theory to the real world.

Watch the episode of *Planet Earth* and analyze how animals have adapted over time (evolved) to thrive in their environment

Use the handout to help guide your analysis