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Learner Outcomes for Evolution Unit

Once the unit of Evolution is complete, students should be able to do the following:

Define gene pool.

Calculate frequency of alleles.

Compare & contrast monogenic and polygenic traits.

Distinguish between the 3 types of natural selection.

Analyze & interpret graphs representing the 3 different types of natural selection.

Apply biological evolution to other aspects in the world.

Describe genetic drift and how it relates to the Founder's Effect.

List the 5 conditions for genetic equilibrium and explain why these conditions must exist to maintain genetic equilibrium.

Evaluate the formation of new species by reproductive isolation.

Explain Darwin's observations how these observations relate to natural selection, speciation and evolution.

Identify Fossil types and their similarities & differences.

Determine the age of fossils by radioactive & relative dating methods.

Examine the geological eras and organisms alive during the periods of these eras.

Differentiate between the different classifications of organisms & why they are classified in that manner.