

Name: _____

Date: _____

Block: _____

Genetics:

Lesson 9 – Natural Selection

Natural Selection: The process by which species
adapt to their environment

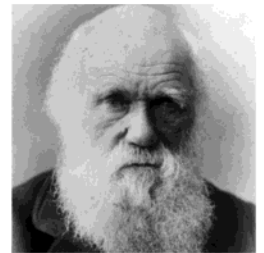
~~is~~ Not survival of fittest.

Ex. Green Beetles

Beetles can be yellow or green. The green beetle can camouflage on green leaves. The green beetle would likely pass on its genes.

Darwin's Process of Natural Selection

- 1- Variation → different phenotypes
- 2- Inheritance → best traits will move on
- 3- High rate of population growth
- 4- Differential survival → new species form



Charles Darwin
Wrote *On the Origin of Species*

Selection Pressures: are external agents that
affect survival, positive or negative

Types of Selection Pressures

- 1- resource availability - food, habitat, mates
- 2- environmental conditions - temp, weather, geological factors
- 3- biological factors - predators, disease, invasive species

Examples of Selection Pressures

Population Dependent

Predator

Availability of resources

Nutrient supply

Disease

Accumulation of waste

Population Independent

Phenomena (natural disaster)

Abiotic factors (temp, CO₂ levels)

Weather (floods, storms)

Animal Adaptations

Ex. Snow Leopard

Adaptive Radiation: _____

Ex. Marsupials of Australia

