

- if favored trait is successfully passed in and becomes present in all individuals of next generation, these traits will be called adaptations and they were developed through natural selection
- an organism is "fit" or best suited for the environment should be able to survive and reproduce passing on its traits to its offspring

The Theory of Evolution

- Variations are individual differences among member of a particular species
- They are inheritable because these are due to the presence of alleles

Patterns of Evolution

1) Convergent Evolution

- a process by which distantly-related organisms develop similar characteristics

2) Divergent Evolution

- a process by which related organisms become different
 - results to speciation (formation of a new species)