



EVOLUTIONARY THEORY

EVOLUTION:

- Change through time
- Processes that transformed early life forms into the current, vastly diverse forms
- Processes at work today

LAMARCK

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| <ul style="list-style-type: none">• Life forms have changed over time• Supported evolution | <ul style="list-style-type: none">• Evolution responded to needs of organism• Use & disuse<ul style="list-style-type: none">○ Increase use = parts become larger & stronger○ Decrease use = parts become smaller & weaker• Inheritance of acquired traits (modifications acquired during lifetime passed onto offspring) |
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DARWIN

Descent with Modifications

- Species not created in present forms
- Species evolved from ancestral species
- All organisms are related
- Organisms descended from a common ancestor

Natural Selection

- Struggle for survival
- Survival of the fittest (best adapted will survive to reproduce)
- Unequal success in reproduction leads to gradual change
- Differential success in reproduction