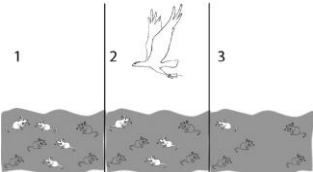




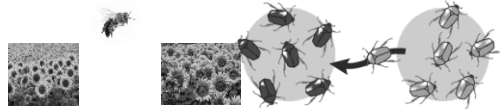
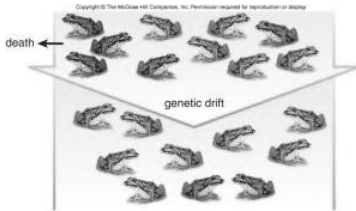

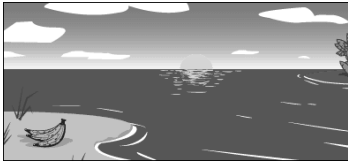

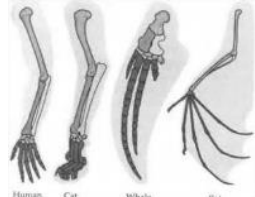
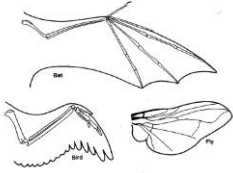
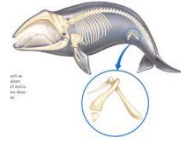
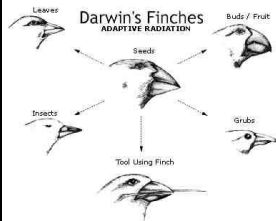
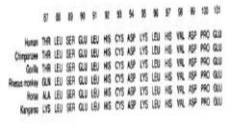
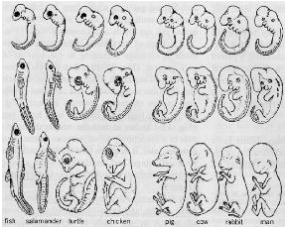
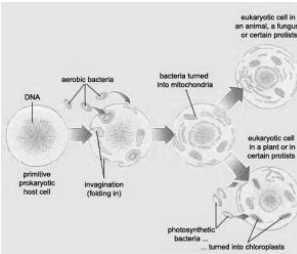

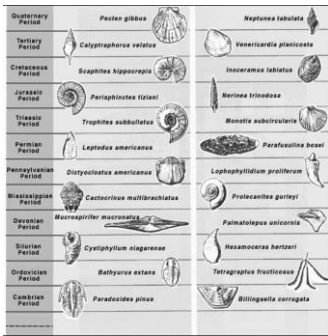


# Mechanisms of Evolution

<p><b>Natural Selection</b></p> 	<p><b>Differential Reproductive Success</b></p> 	<p><b>Heritable Characteristics</b></p> 	<p><b>Adaptations</b></p> 	<p><b>Mutations</b></p>  <p>Mutated gene results in brown coloration</p>
<p><b>Gene Flow</b></p> 	<p><b>Genetic Drift</b></p>  <p>Copyright © The McGraw-Hill Companies, Inc. Permission is required for reproduction or display.</p>	<p><b>Behavioral Isolation</b></p> 	<p><b>Geographical Isolation</b></p> 	

# Evidences of Evolution

<p><b>Biogeography</b></p> 	<p><b>Homologous Structures</b></p>  <p>Human Cat Whale Bat</p>	<p><b>Analogous Structures</b></p> 	<p><b>Vestigial Structures</b></p> 	<p><b>Morphologies</b></p>  <p>Darwin's Finches ADAPTIVE RADIATION</p>	<p><b>Molecular Data</b></p> 																																			
<p><b>Embryological Data</b></p>  <p>Fish Salamander Turtle Chicken Pig Cow Rabbit Human</p>	<p><b>Endosymbiosis</b></p>  <p>aerobic bacteria → bacteria turned into mitochondria → eukaryotic cell in an animal, a fungus, or certain protists</p> <p>photosynthetic bacteria → turned into chloroplasts → eukaryotic cell in a plant or in certain protists</p> <p>primitive eukaryotic host cell → invagination (holding in)</p>	<p><b>Fossils</b></p> 	<p><b>Fossils</b></p>  <table border="1"> <tr> <td>Quaternary Period</td> <td><i>Pecten gibbus</i></td> <td><i>Neptunes tabulata</i></td> </tr> <tr> <td>Tertiary Period</td> <td><i>Calymene baltica</i></td> <td><i>Venericardia planicoستا</i></td> </tr> <tr> <td>Cretaceous Period</td> <td><i>Scaphites hippocrepis</i></td> <td><i>Inoceramus labiatus</i></td> </tr> <tr> <td>Jurassic Period</td> <td><i>Parahoplites titani</i></td> <td><i>Nerinea trilineata</i></td> </tr> <tr> <td>Triassic Period</td> <td><i>Trochites subulatus</i></td> <td><i>Monotis subreticularis</i></td> </tr> <tr> <td>Permian Period</td> <td><i>Lophites americanus</i></td> <td><i>Parafusulina beesi</i></td> </tr> <tr> <td>Pennsylvanian Period</td> <td><i>Distyloceras americanus</i></td> <td><i>Lophophyllum proliferum</i></td> </tr> <tr> <td>Mississippian Period</td> <td><i>Cinctoceras multibrachiatum</i></td> <td><i>Prolecanites guilei</i></td> </tr> <tr> <td>Devonian Period</td> <td><i>Microspirifer macronotus</i></td> <td><i>Palmatolopus unicornis</i></td> </tr> <tr> <td>Silurian Period</td> <td><i>Cyrtophyllum niagarensis</i></td> <td><i>Rhynchonella hartzeri</i></td> </tr> <tr> <td>Ordovician Period</td> <td><i>Baltyspira setacea</i></td> <td><i>Tetragraptus fructicosus</i></td> </tr> <tr> <td>Carboniferous Period</td> <td><i>Paradoxides plus</i></td> <td><i>Stillingia corrugata</i></td> </tr> </table>		Quaternary Period	<i>Pecten gibbus</i>	<i>Neptunes tabulata</i>	Tertiary Period	<i>Calymene baltica</i>	<i>Venericardia planicoستا</i>	Cretaceous Period	<i>Scaphites hippocrepis</i>	<i>Inoceramus labiatus</i>	Jurassic Period	<i>Parahoplites titani</i>	<i>Nerinea trilineata</i>	Triassic Period	<i>Trochites subulatus</i>	<i>Monotis subreticularis</i>	Permian Period	<i>Lophites americanus</i>	<i>Parafusulina beesi</i>	Pennsylvanian Period	<i>Distyloceras americanus</i>	<i>Lophophyllum proliferum</i>	Mississippian Period	<i>Cinctoceras multibrachiatum</i>	<i>Prolecanites guilei</i>	Devonian Period	<i>Microspirifer macronotus</i>	<i>Palmatolopus unicornis</i>	Silurian Period	<i>Cyrtophyllum niagarensis</i>	<i>Rhynchonella hartzeri</i>	Ordovician Period	<i>Baltyspira setacea</i>	<i>Tetragraptus fructicosus</i>	Carboniferous Period	<i>Paradoxides plus</i>	<i>Stillingia corrugata</i>
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