

Glenbard District 87

Course Title: Biology

Unit: Evolution- Population

Stage 1 – Desired Results	
<p>NGSS Goals:</p> <p>LS4-3 Apply concepts of statistics and probability to support explanations that organisms with an advantageous heritable trait tend to increase in proportion to organisms lacking this trait.</p> <p>LS4-5 Evaluate the evidence supporting claims that changes in environmental conditions may result in: (1) increases in the number of individuals of some species, (2) the emergence of new species over time, and (3) the extinction of other species.</p> <p>LS2-8 Evaluate the evidence for the role of group behavior on individual and species' chances to survive and reproduce.</p>	
<p>Understanding(s): <i>Students will understand that...</i></p> <ul style="list-style-type: none"> ○ Natural selection acts on individuals while populations evolve 	<p>Essential Question(s): <i>What provocative questions will foster inquiry, understanding, and transfer of learning?</i></p> <ul style="list-style-type: none"> ○ How can populations evolve to form new species?
<p>Knowledge: <i>Students will know...</i></p> <ul style="list-style-type: none"> ○ The processes in which populations evolve ○ The sources of genetic variation ○ Natural selection acts on single gene and polygenic traits ○ Genetic drift and give examples ○ The types of isolation that can lead to the formation of a new species 	<p>Skills: <i>Students will be able to ...</i></p> <ul style="list-style-type: none"> ○ Analyze data in order to predict the future changes in a population ○ Predict future changes in a population given certain environmental changes ○ Compare and contract group behavior to individual species success