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| **Learning Goals:** **Natural Selection and the Theory of Evolution** |
| **Guiding Question**:How do scientists explain the similarities and variation in different organisms over time? |
| Content GoalsStudents will be able to:* Describe how the process of Natural Selection causes populations to change over time
* Use the theory of evolution to explain how diversity of life on Earth has changed over geologic time
* Compare punctuated equilibrium and gradualism as two evolutionary processes
* Analyze and interpret evidence supporting the theory of evolution, including:

 molecular studies, biogeography, the fossil record, andembryology | Skills GoalsStudents will be able to:* Identify topic of text
* Summarize main idea in text
* Summarize supporting statements used to develop the main idea
* Present data in well-organized tables
* Present data in informative graphs
* Include properly referenced quote in paragraph
* Write APA citation for source used
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| **Organizing Ideas** (Big Ideas and Links between Big Ideas)Students will understand:- how variation within species and between species occurs - how natural selection is the driving mechanism for evolution |
| **Assessment** – How will I know if students have mastered content, skills, and big ideas?- Summary and analysis of scientific article- Student-generated data tables and graphs- Individual assessments such as tests and quizzes |

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| **Key Vocabulary** |
| **Frequency Distribution****Histogram****Variation****Mean****Mode****Median****Range****Hypothesis****Theory****Adaptation****Natural selection****Artificial selection** | **Evolution** **Speciation****Diversity****Differential Reproductive Success****Gradualism****Punctuated equilibrium** **Gene****Gene pool****Mutation****Trait** |

 

