Lesson 6.2 Teacher's Guide

Lesson 6.2: Evidence of Evolution

Standards:

- 9.1.1.1 Science is a way of knowing about the natural world and is characterized by empirical criteria, logical argument and skeptical review. (9.1.1.1)

- 9.4.3.3 Standard: Evolution by natural selection is a scientific explanation for the history and diversity of life on Earth. (9.4.3.3)

Benchmarks:

- 9.1.1.1.6 Describe how changes in scientific knowledge generally occur in incremental steps that include and build on earlier knowledge.
- 9.1.1.1.7 Explain how scientific and technological innovations—as well as new evidence—can challenge portions of, or entire accepted theories and models including, but not limited to: cell theory, atomic theory, theory of evolution, plate tectonic theory, germ theory of disease, and the big bang theory.
- 9.4.3.3.1 Describe how evidence led Darwin to develop the theory of natural selection and common descent to explain evolution.
- 9.4.3.3.2 Use scientific evidence, including the fossil record, homologous structures, and genetic and/or biochemical similarities, to show evolutionary relationships among species.

Tentative Timeline / Sequence:

Lesson 6.2 Student Intro (Day 1)
- ❏ Place a circle around your understanding of the learning targets for lesson #2
- ❏ Place a circle around your understanding of the Key Vocabulary (Fossil Record, Homologous Structures, Genetic / Biochemical Similarities)

6.2.1 Complete Evidence for Evolution Video (Day 1)
- ❏ Complete the Notes
- ❏ Define Key Vocabulary

6.2.2 Complete Evidence for Evolution Activity (Day 2-3)

6.2.3 Formative Assessment (Day 4)
- ❏ Place a Triangle around your understanding of the learning targets for Lesson #2
- ❏ Place a Triangle around your understanding of the Key Vocabulary (Fossil Record, Homologous Structures, Genetic / Biochemical Similarities)
- ❏ Take the formative assessment

Additional Activities, Resources and Tips:

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