

## Chpt. 2 - Evolution: Change Across Time

### Homework/Activities

- **Engage: Lucy** (p.37) Due: \_\_\_\_\_  
Process and Procedures #1-2  
Analysis #1-2
- **Explore: Modeling the Earth's History** (p.38) Due: \_\_\_\_\_  
Process and Procedures: Separate Handout  
Analysis: Separate Handout
- **Explore/**  
**Explain: Evidence for Change Across Time** (p.41) Due: \_\_\_\_\_  
Process and Procedures: per teacher instructions  
Procedures for the Specialists: per teacher instructions
- **Explain: Explaining Evolution** (p.50) Due: \_\_\_\_\_  
Process and Procedures: teacher led discussion  
Analysis #1-2
- **Elaborate: Modeling Natural Selection** (p.52) Due: \_\_\_\_\_  
Process and Procedures: per teacher instructions  
Analysis: per teacher instructions
- **Evaluate: Evolution in Action** (p.58) Due: \_\_\_\_\_  
Process and Procedures #1-2  
Analysis #1-2  
Further Challenges #2-3

### Concepts/Topics

- Geologic time scale: 4 major eras; mass extinctions
- Evidence of evolution: Fossils, Morphology, Embryology, Biochemistry
- Dating fossils - relative dating (superposition), radiometric dating
- Fossils - sedimentary rock, petrified fossils, molds/casts, frozen, amber
- Holes in the fossil record
- Morphology: homologous, vestigial, and analogous structures
- Traits: variations vs. adaptations (mimicry, camouflage)
- Lamarck, Darwin (acquired traits vs. natural selection); Artificial selection
- Natural selection; Fitness (survive, reproduce)
- Gene pool; Evolution: populations, *not* individuals
- Convergent evolution, divergent evolution, adaptive radiation, coevolution

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