Laarman Lesson Plan

Class: Earth Science Unit: Features of Earth Standards: ESS2-1, PS1-8

Topic: Geologic Time Date: 10/3/16

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| **Materials, Prep** | Adding Machine Paper, colored pencils |
| **Anticipatory Set**  **-connection, motivation, relevance** | How old is the Earth? When did humans appear? |
| **Independent Practice** | Student groups complete Quick Lab, p. 212: A timeline of Earth’s history |

Topic: Radiometric Dating Date: 10/4/16

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| **Materials, Prep** | Paper, scissors |
| **Anticipatory Set**  **-connection, motivation, relevance** | 1. Review timeline activity from Thursday    1. Where on the timeline would we put the beginning of humanity?    2. Where would we put the beginning of civilization? 2. Discuss with a partner: how do we know? What evidence do we find that allows us to come up with a timeline of major events, even when they happened millions or even billions of years ago? |
| **Procedure** | Lecture, board demonstrations   * Relative age * Absolute age * Radiometric dating * Half-life * Carbon dating |
| **Homework** | Radiometric dating worksheet |

Topic: Precambrian and Paleozoic Era Date: 10/5/16

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| **Materials, Prep** | Earth History Multimedia |
| **Direct Instruction** | Precambrian and Paleozoic multimedia presentation for student notes |

Topic: Mesozoic Era Date: 10/6/16

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| **Materials, Prep** | Earth History Multimedia |
| **Direct Instruction** | Mesozoic multimedia presentation for student notes |

Topic: Cenozoic Era Date: 10/7/16

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| **Direct Instruction** | Cenozoic multimedia presentation for student notes |
| **Homework** | Study for quiz Monday! |