Laarman Lesson Plan

Class: Earth Science Unit: Earth’s Resources Standards: ESS3-1, ESS3-2, ESS3-6

Topic: Storms Date: 2/6/17

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| **Materials, Prep** | Ch. 23 Supplement Notebook file |
| **Procedure** | 1. Return, discuss weather tests 2. Complete Katrina video 3. Photos from Ch. 23 supplement: tornadoes and hurricanes 4. Discuss: Why has the incidence of severe weather hazards increased in recent years? |

Topic: Extracting Earth’s Resources Unit Preview Date: 2/7/17

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| **Materials, Prep** | Earth’s Resources multimedia |
| **Objective** | Motivation; convince students of the importance of analyzing how we extract Earth’s resources and show how it relates to all of our lives. |
| **Anticipatory Set**  **-connection, motivation, relevance** | Hazards unit wrap: discuss the different types of hazards (include drought, wildfire, dust storms, volcanoes, blizzards), identify which ones are caused in part by human activity. |
| **Procedure** | Earth’s Resources multimedia: unit preview   * Human population * Resources we depend on   + Food   + Minerals   + Energy * Images of how we obtain these resources * Video clips of environmental devastation, social upheaval, personal suffering surrounding the obtaining of these resources |

Topic: What’s in our cell phones? Date: 2/8/17

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| **Materials, Prep** | Computer cart, cell phone mineral research sheet |
| **Anticipatory Set**  **-connection, motivation, relevance** | What’s in your cell phone that makes it work? |
| **Procedure** | Students work on cell phone mineral research sheets |

Topic: What’s in our cell phones? Date: 2/9/17

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| **Materials, Prep** | Computer cart |
| **Closure** | Students continue work on cell phone mineral research sheets |
| **Homework** | Completed cell phone sheets due Friday |

Topic: Iron Mining Date: 2/10/17

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| **Materials, Prep** | Laptop Cart |
| **Anticipatory Set**  **-connection, motivation, relevance** | Google Earth: Tilden and Empire mines in Ispheming/Negaunee area. |
| **Procedure** | Students read [article](http://www.jsonline.com/story/news/local/wisconsin/2016/09/19/michigan-mine-prompts-scrutiny/90522306/) on the proposed “Back Forty Mine” and complete a Cornell Method note sheet |
| **Homework** | Note sheet due Monday |