Laarman Lesson Plan

Class: Earth Science Unit: Weather Standards: ESS3-1, ESS3-2, PS4-3

Topic: Weather Labs Dates: 1/30/17

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| **Procedure** | 1. Student groups perform labs at stations    1. Each group performs two labs    2. Students must fill out lab reports and answer questions.    3. Students write a summary of the key principle(s) learned at each lab |
| **Homework** | Lab reports and summaries due Tuesday |

Topic: Weather Date: 1/31/17

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| **Materials, Prep** | Weather multimedia |
| **Procedure** | 1. Summarize key points from weather labs: solar radiation, temperature differences, air pressure 2. Student groups seek to explain what happened in the can-crushing lab |

Topic: Weather Date: 2/1/17

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| **Materials, Prep** | Weather multimedia |
| **Procedure** | Multimedia: cover key weather points not discussed in conjunction with the labs   * Energy transfer with changes of state (evaporation, condensation, etc) * Fronts and air masses * Jet stream |

Topic: Storms Date: 2/2/17

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| **Materials, Prep** | Weather Test |
| **Objective** | Students can explain how fronts and latent heat lead to severe weather events. |
| **Anticipatory Set**  **-connection, motivation, relevance** | Students tell stories of storms they were caught in. Where do storms get all that energy? |
| **Procedure** | 1. Weather test 2. Video clips and discussions: storms  * Video clips explaining lightning, hurricanes, and tornadoes * Video clips and slide shows of storm case studies |
| **Closure** | Why have the incidence of severe weather hazards increased in recent years? |
| **Homework** | Written paragraph: explain how fronts and latent heat lead to severe weather events. |

Topic: Storm Case Study Date: 2/3/17

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| **Procedure** | * Students vote on storm to view a video case study on * Students write questions for further research as they watch |