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
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| **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
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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
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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
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| **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
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