Laarman Lesson Plan

Class: Earth Science Unit: Earth and Human Activity Standards: ESS2-4, ESS3-3, ESS 3-4, ESS3-5, ESS3-6

Topic: “Trouble in Paradise” Date: 3/27/17

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| **Materials, Prep** | Colored pencils, “Trouble in Paradise” sheets |
| **Procedure** | Trouble in Paradise activity: from Wisconsin DNR: students conduct an investigation, trying to determine the source of groundwater contamination. |

Topic: Water Filtration Lab Date: 3/28/17

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| **Procedure** | Students work to design water filters. Lab description at: <http://www.jpl.nasa.gov/edu/teach/activity/water-filtration-challenge/> |

Topic: Water Follow-up Date: 3/29/17

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| **Procedure** | 1. Water filtration lab follow-up    1. How septic systems work video: <https://www.youtube.com/watch?v=IftsX9Z7vHI>    2. Filtering water in space video: <http://www.jpl.nasa.gov/edu/teach/activity/water-filtration-challenge/>    3. Hazardous household materials video: <https://www.youtube.com/watch?v=uIDQ2nqiQzg>    4. Scene from *Earth: A New Wild*: The Colorado River 2. Introduce concept of next unit: self-paced learning for mastery |

3/30/17 - 4/21/17: Self-paced unit on Climate Change

* Students are given 10 assignments using the Edmodo platform
* Students do the assignments in order
* Students can only move on to the next assignment after they get a perfect 10 out of 10 on the previous assignment
* Students’ final grades for the unit will depend upon how many assignments they complete. For example, a student who gets all 10 assignments done will get 100 out of 100. A student who gets seven done will get 70 out of 100.