INSTRUCTIONAL LEADERSHIP FOR SCIENCE PRACTICES (ILSP)
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Science Instruction Observation Form

Educator Name: Ms. Rivers **Supervisor** Name: Dr. Dalton

Observation Date: 2/11/15 Observation Time/Duration: 10am / 20 mins

Intended Observation Focus: Inclusion of science practices in instruction

NGSS Practices *Which practices are observed?*

Investigation Practices	*Sensemaking Practices*	*Critiquing Practices*
☐ 1. Asking Questions	☐ 2. Developing and Using Models	☒ 7. Engaging in Argument from Evidence
☐ 3. Planning and Carrying Out Investigations	☒ 4. Analyzing and Interpreting Data	☐ 8. Obtaining, Evaluating, and Communicating Information
☐ 5. Using Mathematics and Computational Thinking	☐ 6. Constructing Explanations	

Observation Evidence *What are the educator and students saying and doing?*

- Students in groups using maps with earthquakes (blue dots) + volcanoes (red dots)
  - Answering questions provided by teacher
- Questions are simple - "Where on the map did you see the most volcanoes?" - student answers brief - "Japan"
- Teacher calls students back together
- Praises effective discussions + analysis of maps
- States that maps were the data
- Students raise hands to share group answers
- Teacher asks students to hypothesize about location of a new volcanoes.
- ~~Students not~~ connecting knowledge of plate tectonics to occurence of new volcano

NGSS Practices Progression *Where do the observed practices fall along the progression?*

Practice #: 1 2 3 (4) 5 6 7 8

1 ..... (2) 3 4

Practice #: 1 2 3 4 5 6 (7) 8

(1) ..... 2 ..... 3 4

Rationale for Levels: *What impacted the ratings of the practices?*

- Practice 4 (Level 2): Ms. Rivers provided students with the opportunity to work with data (ex. maps). Students were unable to connect their plate tectonics knowledge to the map data.
- Practice 7 (Level 1): Ms. Rivers did not provide students opportunities to engage in argumentation. Instead discourse was teacher-driven, and with no chance for students to use evidence and/or reasoning to back their claims about occurence of new volcano.