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**Analyzing Curriculum and Instruction in relation to the Next Generation Science Standards**

As we review the lesson and related materials, keep these norms in mind:

1. Listen first and seek clarity – listen to the presenter and make sure you understand
2. Embrace critique – the goal of this activity is to improve our work’s alignment with the NGSS, so embrace the questions and comments that might feel like critique
3. Specify evidence – point to specific evidence in the lesson, materials and NGSS
4. Avoid fixing things – ask more NGSS related questions, offer fewer suggestions

Title and grade of lesson: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Big ideas in the lesson** | **Connections to Disciplinary Core Ideas (DCI)** |
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| **Science and engineering practices** | **Which can be found in this lesson?** | **What more could be included to connect to the practices?** |
| Ask questions/define problems  Develop and use models  Plan and carry out investigations  Analyze and interpret data  Use math/computation  Construct explanations and  design solutions  Argue with evidence  Obtain, evaluate and  communicate information |  |  |

**Key question A: How is or could engineering be incorporated into the lesson? \_\_\_\_\_\_\_\_\_\_\_\_**

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| **Crosscutting concepts** | **Which can be found in this lesson?** | **What more could be included to connect to the ccc?** |
| Patterns  Cause and effect  Scale, proportion and quantity  Systems and system models  Energy and matter in systems  Structure and function  Stability and change of systems |  |  |

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| **Nature of science**  (see appendix H, p. 6-7) | **Which can be found in this lesson?** | **What more could be included to connect to the NoS?** |
| Use a variety of methods  Based on empirical evidence  Open to revision if evidence  Explain natural phenomena  Science = way of knowing  Assume order and consistency  Science is a human endeavor  Addresses specific questions |  |  |

**Key question B: Which performance expectations relate to this lesson? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Key question C: How could the CCSS in math and ELA be taught within the lesson?**

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