****

**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: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| **Big ideas in the lesson** | **Connections to Disciplinary Core Ideas (DCI)** |
|  |  |

|  |  |  |
| --- | --- | --- |
| **Science and engineering practices** | **Which can be found in this lesson?**  | **What more could be included to connect to the practices?**  |
| Ask questions/define problemsDevelop and use modelsPlan and carry out investigationsAnalyze and interpret dataUse math/computationConstruct explanations and  design solutionsArgue with evidence Obtain, evaluate and communicate information |  |  |

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

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| **Crosscutting concepts** | **Which can be found in this lesson?**  | **What more could be included to connect to the ccc?**  |
| PatternsCause and effectScale, proportion and quantitySystems and system modelsEnergy and matter in systemsStructure and functionStability and change of systems |  |  |

|  |  |  |
| --- | --- | --- |
| **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 methodsBased on empirical evidenceOpen to revision if evidenceExplain natural phenomenaScience = way of knowingAssume order and consistencyScience is a human endeavorAddresses specific questions |  |  |

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

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_