**NGSS UNIT PLAN**

**UNIT TITLE:**

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| **Teacher Name:** | **Unit Topic:** |
| **Science Course/Grade Level:** | **Unit Duration:** |
| **Driving Question for Unit:** | |
| **NGSS Performance Expectations:** | |
| **NGSS Disciplinary Core Ideas:** | |
| **Relevant Science & Engineering Practices:** | |
| **Relevant Cross-Cutting Concepts:** | |
| **Relevant Common Core Standards:** | |

Instructional Plan Using the 5-E Cycle of Inquiry

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| **Engage** | | |
| PURPOSE:   * to convey the context of the unit by formulating an important Driving Question * to engage students in investigations that reveal their thinking to themselves and the teacher * to record the initial ideas of students * to engage their interest | | |
| **What is the teacher doing? What are the students doing?** | | |
| **Explore** | | |
| PURPOSE:   * to test ideas and develop knowledge using explorations, investigations, experiments * to modify and record ideas as they change due to activities * to develop new questions and testable hypotheses | | |
| **Activities (list)** | | **Focus Questions** |
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| **Student Communication Product:** (notebook, report, presentation, poster, model, etc.) | | |
| **Explain** | | |
| PURPOSE:   * to answer the Driving Question and Focus Questions through student explanations * to provide students with relevant vocabulary, formal definitions and explanations of concepts | | |
| **Content Media: (written material, video, guest lecture, demonstration, visuals)**  **Student Communication Product:** (test, writing, poster session, models or diagrams, etc.) | | |
| **Elaborate** | | |
| PURPOSE:   * to extend students' conceptual understanding through application or practice in new settings | | |
| **Activities:**  **Content Media: (written material, video, teacher lecture, technology)**  **Extending/Application Questions for Whole/Small Group Discussion:**  **Student Communication Product:** (unit test, written report, oral presentation, poster, etc.) | | |
| **Evaluate** | | |
| PURPOSE:   * for students to assess their understanding of the learning objectives * for the teacher to assess student understanding of the learning objectives | | |
| **Science & Engineering Practices** | **Methods for assessing skills** | |
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| **Core Ideas and Knowledge** | **Methods for assessing understanding** | |
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