**NGSS UNIT PLAN**

**UNIT TITLE:**

|  |  |
| --- | --- |
| **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

|  |
| --- |
| **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** |
|  |  |
| **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** |
|  |  |
| **Core Ideas and Knowledge** | **Methods for assessing understanding**  |
|  |  |