**Lesson Plan Title: Candium Lab**

**Teacher’s Name: Mr.Gomez Subject/Course: Chemistry**

**Unit:** Click here to enter text. **Grade Level: College Prep**

**Overview of and Motivation for Lesson:**

**Isotopes are used to determine atomic mass for elements**

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| **Stage 1-Desired Results** |
| **Standard(s):*** Click here to enter text.
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| **Aim/Essential Question:*** How does percentage of each isotope affect molar mass
 |
| **Understanding(s):***Students will understand that . . .** Isotopes can look similar in many characteristics but differ significantly in mass
 |
| **Content Objectives:** *Students will be able to . . .* * Identify the atomic mass of Candium
* Average atomic mass for each Candium isotope
 | **Language Objectives:**ELD Level Choose an item. *Students will be able to . . . in English** Click here to enter text.

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 |
| **Key Vocabulary*** Click here to enter text.
 |
| **Stage 2-Assessment Evidence** |
| **Performance Task or Key Evidence*** Collect data on isotopes of Candium to determine atomic mass
 |
| **Key Criteria to measure Performance Task or Key Evidence*** Calculate Candium atomic mass within +/- 10% percent error
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| **Stage 3- Learning Plan** |
| **Learning Activities:**Do Now/Bell Ringer/Opener: Take out pre-lab and hand it into green binLearning Activity 1: Go over key aspects of the lab and mention what safety precautions must be followed for lab safety Learning Activity 2:Candium LabApplication **Demonstrate isotopes can look similar in shape and color but can result in different atomic masses**Summary/ClosingClick here to enter text.**Multiple Intelligences Addressed:**

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| --- | --- | --- | --- |
| [ ]  Linguistic | [x]  Logical-Mathematical | [ ]  Musical  | [ ] Bodily-kinesthetic |
| [ ]  Spatial  | [x]  Interpersonal | [ ] Intrapersonal | [ ] Naturalistic  |

**Student Grouping**[ ] Whole Class [ ]  Small Group [x]  Pairs [ ]  Individual**Instructional Delivery Methods**[x] Teacher Modeling/Demonstration [ ]  Lecture [ ]  Discussion[x]  Cooperative Learning [ ]  Centers [ ]  Problem Solving[x]  Independent Projects |
| **Accommodations**None | **Modifications**None |
| **Homework/Extension Activities:**Finish Candium Lab |
| **Materials and Equipment Needed:*** Candy
* Whiteboard
* Electronic Scale
* Markers, many colors
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**Adapted from Grant Wiggins and Jay McTighe-*Understanding by Design***