

Chemistry Stem lesson plan

Objective	Students will be able to: <ul style="list-style-type: none">• Identify the atomic mass of given elements• Identify elements by symbol
Grade Level	College age Intro chemistry course
Types of Students	<ul style="list-style-type: none">• Mixed races• Mixed languages• Ages 18 and up
Learning Environment	<ul style="list-style-type: none">• Lecture of 150 students or higher• Learn from professor or teaching assistant
Standards	To be able to move up into upper level chemistry students must understand the basics of chemistry including knowledge of element symbols and atomic mass
Materials	<ul style="list-style-type: none">• Computers• Wolfram Alpha• Paper/Pencil
Warm-up	Put a list of elements on the board and ask the students what ones they can name
Procedures	<ul style="list-style-type: none">• Give students a list of elements from the periodic table• Instruct your students to go online to Wolfram Alpha• Have them type in the name of the element into Wolfram Alpha and record the element mass and symbol
Application	Students will be able to recognize elements and the atomic mass of those same elements. This will be applicable if a student is doing experiments where the atomic mass is relevant
Evaluation	In the next class give the students a quiz giving the element name and have the students give you the atomic mass and

	symbol of the given element to ensure retention of the information.
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