

Module Title _____ Lesson 3 Atoms Smallest Unit of Matter

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Lesson # 3 Title: Atoms	Number of Minutes:
<p>Mathematical purpose: Measurement and number sense</p>	<p>Scientific Purpose: To identify the smallest units of Matter</p>
<p>Materials needed: Atoms model worksheet</p> <p>Colored mini marshmallows Chocolate chips The periodic table of Elements</p>	<p>Academic vocabulary: Protons Neutrons Electrons Nucleus</p>
<p>Common Core Standards (copy and paste):</p> <p>Convert like measurement units within a given measurement system. CCSS.MATH.CONTENT.5.MD.A.1 Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems.</p>	<p>Next Generation Science Standards (copy and paste):</p> <p>5-PS1-4 Matter and Its Interactions 5-PS1-4 Matter and Its Interactions ... who demonstrate understanding can: 5-PS1-4. Conduct an investigation to determine whether the mixing ... through investigation of different aspects of a topic.</p> <p>5-PS1-4. Conduct an investigation to determine whether the mixing ... are controlled and the number of trials considered. (5-PS1-4) Make observations and measurements to produce data to serve as ...</p>
<p>When students are finished they will understand: The structure of an Atom</p> <p>How to identify the parts of an atom</p>	<p>Teacher Prompts:</p> <p>How many protons in your element?</p> <p>What are the main parts of an element?</p> <p>How do you identify</p>

<p>Anticipated student questions</p> <p>How can you identify different elements?</p> <p>What is the difference between your element and your neighbors.</p>	<p>Misconceptions students might have:</p> <p>Every time you add a substance a chemical reaction will fizz.</p> <p>Students may not combine the proper amount of substances to create the reactions. Students may also mis-understand how to explain that new substance can be formed from a chemical reaction.</p>
<p>General outline of the lesson: See attached Lesson Plans</p> <p>Research Lesson Fizz Quiz</p>	

Supplemental files/resources will follow