



# Rio Grande Educational Collaborative Before and After School Program Lesson Plan



## Guidelines:

Lessons should be at least (60) minutes, and **MUST** pertain to literacy.

<b>Lesson Title:</b>	DIY Bouncy Balls
<b>School:</b>	Pajarito Mesa Portable
<b>Date:</b>	2018-01-30
<b>Instructor Name:</b>	Kevin Saavedra
<b>Class Size:</b>	15

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<p><b>NM Common Core/State Standards:</b> (SCIENCE)</p> <p>CCSS.MATH.CONTENT.K.MD.A.2: Directly compare two objects with a measurable attribute in common, to see which object has "more of"/"less of" the attribute, and describe the difference. For example, directly compare the heights of two children and describe one child as taller/shorter.</p> <p>CCSS.MATH.CONTENT.3.MD.A.2: Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l).1 Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units, e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem.</p> <p>CCSS.MATH.CONTENT.5.MD.C.5: Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume.</p>	<p><i>For more information on NM Common Core/State Standards visit:</i>  <a href="http://newmexicocommoncore.org/">http://newmexicocommoncore.org/</a>  <a href="http://www.mystandards.org/">http://www.mystandards.org/</a></p>
<p><b>Learning Objectives:</b></p>	<p><i>[Instructional context:]</i> i.e. After listening to "If You Decide to Go to the Moon" by Faith McNulty and</p>



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<p>Students will: Review basic chemistry knowledge (adding specific mixtures in predetermined quantities), but also adapt to unfamiliar situations when something goes wrong.</p>	<p>identifying relevant words during the readaloud [<i>what students will do:</i>] i.e. Students will write a list of words [<i>Standard was met as demonstrated by:</i>] i.e. Students can identify, spell and define sight words as demonstrated by post activity trivia</p>
<p><b>Lesson Materials &amp; Equipment:</b> Borax, warm water, corn starch, glue, 2 small mixing cups, a stirring stick, food coloring</p>	<p>Please include all items and the quantity.</p>
<p><b>Special Requests for RGEC Equipment:</b> None</p>	

## Instructional Sequence:

*Please Note: This section should be written so that another Instructor could pick it up and teach the lesson successfully. Include estimates of wait time, questions you may ask, and as many specific details as possible.*

### Body of the Lesson

1. (What you will say/do to assess, connect to, or build, necessary background knowledge.
2. Describe step-by-step what the students will be doing during the lesson.
3. Opportunities to participate in small groups.
4. Activity to process daily participation

<p><b>Instructional Sequence:</b> <b>Model the process for the students and have them follow along step-by-step:</b></p> <p>-Label one cup 'Borax Solution' and the other cup 'Ball Mixture'.</p> <p>-Pour 4 ounces (120ml) of warm water into the cup labeled 'Borax Solution' and 1 teaspoon of the borax powder into the cup. Stir the mixture to dissolve the borax.</p> <p>-Pour 1 tablespoon of glue into the cup labeled 'Ball Mixture'. Add 3-4 drops of food coloring, if desired.</p> <p>-Add 1/2 teaspoon of the borax solution you just made and 1 tablespoon of cornstarch to the glue. Do not stir.</p>
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**-Allow the ingredients to interact on their own for 10-15 seconds and then stir them together to fully mix.**

**-Once the mixture becomes impossible to stir, take it out of the cup and start molding the ball with your hands. The ball will start out sticky and messy, but will solidify as you knead it. Once the ball is less sticky, continue rolling between your hands until it is smooth and round.**

### **Lesson Credits:**

**Where did you get your ideas for your lesson? (i.e. website, etc.)**

Adapted from: <https://sciencebob.com/make-your-own-bouncy-ball/>