



Rio Grande Educational Collaborative Before and After School Program Lesson Plan



Guidelines:

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

Lesson Title:	GIANT Floating Bubbles
School:	Pajarito Mesa Portable
Date:	2017-12-05
Instructor Name:	Kevin Saavedra
Class Size:	15

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

<p>NM Common Core/State Standards: New Mexico K-4 Benchmark Standard I: Understand the processes of scientific investigations and use inquiry and scientific ways of observing, experimenting, predicting and validating to think critically.</p>	<p><i>For more information on NM Common Core/State Standards visit:</i> http://newmexicocommoncore.org/ http://www.mystandards.org/</p>
<p>Learning Objectives: Students will make predictions, observe, and continue to develop questions, building upon the previous ideas gleaned from the Big Floating Bubbles lesson.</p>	<p><i>[Instructional context:]</i> i.e. After listening to "If You Decide to Go to the Moon" by Faith McNulty and 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>Lesson Materials & Equipment: For each team:</p> <ul style="list-style-type: none"> -1 Ten-foot piece of string <p>Shared:</p> <ul style="list-style-type: none"> -several dipping trays prepared with soap solution (Joy or Dawn works best) 	<p>Please include all items and the quantity.</p>
<p>Special Requests for RGEC Equipment: None</p>	



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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

Instructional Sequence:

-Break the students into pairs, and put these pairs onto three separate teams (one team, 2-3 teams at each tray)

-With a student assisting, demonstrate how to form a giant bubble by going through this process:

-Tie together the two ends of a 10-foot piece of string to make a loop.

-Together with your partner, grab this loop of string with two hands.

-Together, place the string into the container of soap solution, making sure all of the string goes into the solution and get your hands wet.

-Slowly pull out the string, keeping all hands above the container and close to each other.

-Let the solution dip a little from the string once all of it is out of the bucket.

-Move away from each other so that the string loop is stretched tight.

-Each team member should move one hand 6-10 inches above their other hand to form a rectangle, as shown in figure 9.

-Together move the loop of string sideways while keeping it taut. The soap film will bulge out.



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Close it off by bringing the two lengths of string together.

-Very carefully move the string away from the bubble to release it.

-Rotate through each pair. They will have three tries to form a bubble before moving to the next pair.

-While students are creating bubbles, engage them in key discussion questions and challenge them to try different things (How big can you make a complete bubble? What happens if you just keep moving the string along and do not close off the bubble? What happens if you start moving the string and then stop? Does it make a difference if you start off with a horizontal rectangle instead of a vertical rectangle?)

-Reinforce the key points from the Big Floating Bubbles lesson (about the shape and consistency of the soap), but also touch on new observations (Why are these bubbles bigger than the last lessons'?)

Lesson Credits:

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

Adapted from Explore It! EDC Center for Science Education STEM Kit (Bubbles Manual)