Annie Jones
Inquiry Science
Grades: Pre-K – First
Rainbow Toast

Objective/Purpose: This is an excellent opportunity to integrate teaching the colors of the rainbow into weather/water cycle sections. After condensation or rain has been taught to the class, then they are easily able to identify one of the products of rain, a Rainbow!
Rainbow Toast also satisfies these QCC Requirements:

3  Topic: Safety
   Standard: Identifies and practices accepted safety procedures in manipulating science materials and equipment.

4  Topic: Activities/Tools
   Standard: Actively engages in the learning process via hands-on/minds-on science activities. Uses appropriate tools to collect and analyze data and solve problems.

Materials/Time Required:
1. Two loaves of white bread (toasted) / each student gets two pieces of bread
2. Food Coloring (with at least blue, yellow, and red colors)
3. 9 small plastic cups
4. milk
5. water
6. one paint brush per student
7. paper towels
8. sugar
9. A picture of a rainbow with colors in order (ROY G. BIV)

Background Information:
The class loved this “experiment” because they got to paint and they got to eat! Two, of what I gathered, were their most favorite things to do. The students will paint a rainbow onto the toast in the order of the colors of the rainbow, Red, Orange, Yellow, Green, Blue, Indigo, and Violet. They can follow the picture of the rainbow that the teacher has displayed for the class. Then the teacher will sprinkle sugar onto the toast for the class to eat and enjoy!

Preparation:
Fill 7 of the plastic cups half-way full with milk. Put 3 drops of Red, Yellow, and Blue food coloring into three separate cups with milk. Mix 3 drops Red and 3 drops Yellow to make Orange milk. Mix 3 drops Blue and 3 drops Yellow to make Green milk. Mix 3
drops red and 3 drops Blue to make Purple milk. Mix 3 drops Purple with 3 drops Blue to make Indigo milk. Fill at least 3 cups full of water, so the kids can rinse of their paint brushes in between colors. Give each of the children two pieces of toast and a paintbrush on a paper towel.

Safety Issues:
Teachers must stress patience and good manners BEFORE the children all reach for the red milk at once. Also, stress that if they do not take turns, then the milk could be spilled and no one gets to paint or eat their toast. The class must also be reminded to rinse their paint brushes in between colors, so as not to mix colors (they have probably already learned how to do this from previous painting projects).

Activity Outline/Teacher Procedures:
Make sure that the kids paint the colors in the correct order of the colors of the rainbow. Also, be ready to pass colors back and forth; once you have stressed being polite, they will ask you to "Please" pass whatever color they need. After they have finished painting their rainbows, sprinkle sugar on their toast for them to eat.

Possible Questions:
1. Can you describe how and when you will find a rainbow?
2. What are the colors of the rainbow, in order?

Assessment/Evaluation:
Can the class name their colors to you in order? Were they polite, and did they work well with the group, sharing their colors?