Alex Smith

Kimberly Miller

4-H Lesson Plan: Bottle Rocket

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| Planning | |
| 1 Hour | Materials needed:   * An empty water bottle * Vinegar * Baking soda * A cork * Toilet paper * Pencils * Duct tape * Measuring cups & spoons * Funnel * Construction paper * Tape   Instructions:   * Bring printed instructions (5 variations)   Cost Sheet   * Details with budget and cost per camper. |
| Preparing | |
| 10 Minutes | Set up supply table with materials listed above.  Set up prototype demonstration. |
| Presentation | |
| 2 Minutes | Alex will introduce the activity.  Kim will talk about how the bottle rocket flies due to carbon dioxide and how the pressure builds up.  Then Kim & Alex will demonstrate prototype by measuring out ingredients and launching the bottle rocket. |
| 5 Minutes | Decorating Bottle Rocket  Materials needed:   * Construction Paper * Tape |
| 8 Minutes | Alex & Kim will help campers individually measure out ingredients for bottle rocket.  Give instructions on how to safely put baking soda in rocket and watch it blast it off! |
| Evaluate | |
| 5 Minutes | Questions to ask the campers:   * What did the campers think about project? * How did the variations affected the pressure? * Would they want to do anything differently? * Would they want to do it again? |