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.
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| 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
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| 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?
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