<table>
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<th><strong>Scientific IDEA/question</strong></th>
<th><strong>Name of Experiment and brief explanation</strong></th>
<th><strong>Materials needed for ONE experiment</strong></th>
<th><strong>Instructions: how to perform the experiment</strong></th>
<th><strong>What are you observing? Explain Results. Are there any variations to this experiment?</strong></th>
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| Mixing a base and an acid creates gas | This experiment demonstrates what happens when acid and base are mixed to create gas | 1 small water-balloon sized balloon  
Tablespoon Measure and teaspoon measure  
2 Tablespoons. (30 ml) of water  
1 Teaspoon Baking soda  
small empty soda bottle  
1 lemon, cut in half and squeezed into a small bowl.  
funnel  
sm. 4x4 piece of folded card stock | Stretch the balloon to make it easier to inflate  
Measure the water  
Pour the2 tblsp. water into the clean, empty soda bottle  
Measure 1 tsp of baking soda onto the folded cardstock, and funnel it into the water bottle.  
Mix the water and baking soda by carefully swiring the bottle until dissolved.  
Get ready with the balloon...  
Using the funnel, have someone else pour the lemon juice and remove funnel. **Quickly** fit the balloon onto the top of the bottle. **What happens?** | **Acid and base create gas that rises**  (Chemistry)  
The baking soda (base) and lemon (acid) mixed together create carbon dioxide (gas) that rises  
The rising gas inflates the balloon! |
| Can you blow up a balloon without blowing into it? | | | | |