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| **Predict** | **Observe** | **Explain** |
| 1. The vinegar and bi-carb will mix and go all frothy. (Sara) 2. The bottle will explode! (Oliver) 3. The bottle will shoot high up and go to the moon. (Sam) | 1. The vinegar and bi-   carb soda mix together.   1. The gas builds up and the bottle expands. 2. The bottle rocket shoots in the air and the mixture is squirted out of the end of the bottle. | The vinegar which is made of water and acetic acid and the bi-carb (baking soda or sodium bicarbonate) mix together causing a reaction. The bi-carb soda will release a gas called carbon dioxide and when it mixes with the vinegar is creates bubbles.  The gas builds pressure up inside the bottle until it pops the top of the bottle. The vinegar mixture is pushed out of the bottle and this then forces the bottle rocket to fly upwards. |