How to Make Invisible Ink

For each experiment, teacher Jonte Lee provides a set of questions to work on with your student to get them thinking critically about the experiment they just tried. Questions are catered to each grade level.

**Elementary School**

1. When the paper dried, what did you observe?
2. After the paper dried, what does the grape juice interact with?
3. Would the type of paper change the reaction? Why or why not?

**Middle School**

1. Research why the grape juice interacts with the baking soda. Would orange juice work?
2. Based on question #1, explain how this help plants to indicate pH?
3. With pH indicators, what numbers represent a base? How about an acid?

**High School**

1. This is an acid-base reaction, which part of this reaction is the acid and which part is the base?
2. Based on what you know about pH indicators, why did we use grape juice? Would the concentration of the grape juice make a difference?
3. Why did we have to let the paper dry before applying the grape juice?