



Potions

Challenge: To match different colors using the cabbage juice and other given solutions.

Goal: To teach kids about pH levels and the difference between acids and bases

Discussion Points:

- What solutions are acids?
- What solutions are bases?
- Why do different solutions change the color of the cabbage juice?
- What solution has the highest pH level?
- What solution has the lowest pH level?

Materials:

- Cabbage juice
- Cups
- Squeeze bottles
- Bottles of Ingredients(acid and base solutions)
- Baking soda
- Vinegar
- Alka seltzer tablets

Steps:

Part 1: Have the kids drop alka seltzer tablets into the bottles of “Bubbling Dragon Blood”; this creates a lava lamp effect.

Part 2: Pass out the pie pans and give each kid a cup of baking soda. Pass out the bottles labeled “pickled slugs”. The baking soda and vinegar/soap solution creates a foaming potion.

Part 3:

- 1.) Make sure each squeeze bottle is filled with the different solutions that kids can mix into their cabbage juice



- 2.) The station leader will give each child a small cup of cabbage juice.
- 3.) Have the children use the different acids and bases to change the color of the cabbage juice
- 4.) The kids can dump out their Polyjuice Potions in the sink and get refills of cabbage juice to experiment to turn their potion different colors.
- 5.) After creating each potion, they can test the pH of their potion with pH strips.

HARRY POTTER POTIONS GUIDE	
Pickled Slugs	Vinegar and soap - green dye
Morning Dew	Seltzer
Essence of Mandrake	Baking Soda
Infusion of Wormwood	Magnesium Citrate
Basilisk Venom	Dish Soap - Green
Dragon's Blood	Vegetable oil(3/4), water(1/4), red coloring
Unicorn spit	Milk of Magnesia and glitter/food coloring