



FIREWORK SCIENCE

Ingredients

- Copper Sulfate
- Morton's Salt Substitute
- Calcium Chloride
- Borax
- Salt
- Boric Acid
- Cotton Balls
- Rubbing Alcohol (70% Isopropyl)
- Grill Lighter
- Muffin pan
- Tongs

Instructions

STEP 1: Place two tablespoons of copper sulfate, Morton salt substitute, calcium chloride, borax, salt, and boric acid in a different section of the muffin pan.

STEP 2: Dip six different cotton balls in the rubbing alcohol.

STEP 3: Using the tongs pick up the cotton balls and place each in a different section. Make sure that each cotton ball is covered with the powder in each section of the muffin pan.

STEP 4: Using the grill lighter ignite the cotton balls one at a time.

Explanation

The color of each flame depends on the ingredient being burned. Borax will burn green, salt contains sodium and will burn yellow, Morton salt substitute contains potassium chloride and burns purple, and calcium chloride will burn an orange-red.

Therefore, fireworks get their unique colors due to the ingredient added to the firework.

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