

VR Science Lab

Colored Fire - Rainbow Flame

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The goal is to produce colored fire.

Colored fire is a common pyrotechnic effect used in stage productions, fireworks and by fire performers. Generally, the color of a flame may be red, orange, blue, yellow, or white, and is dominated by blackbody radiation from soot and steam. When additional chemicals are added to the fuel burning, their atomic emission spectra can affect the frequencies of visible light radiation emitted - in other words, the flame appears in a different color dependent upon the chemical additives.

Flame coloring is also a good way to demonstrate how fire changes when subjected to heat and how they also change the matter around them.

- ∅ We will need different metal salts that will paint flames in different colors
- ∅ Firstly, we will need to pour our metal salts in plastic cup
- ∅ Secondly, we need to add some fuel, in this case that fuel is methanol
- ∅ At last, we flame methanol and the fire changes color

Note your observations below.

The set consists of:

Paper cups

Your chemical(s) of choice

Methanol (for fuel)

AFTER YOU FINISH 1. You must make a lesson plan for it!

SCAN ME

