

Oooh! Aaah! Style Flame Tests Demonstration Worksheet

Discussion Questions

1. Name the metal ion present in each Petri dish and the flame color it produced.

Petri Dish 1 –

Petri Dish 2 –

Petri Dish 3 –

Petri Dish 4 –

Petri Dish 5 –

2. When an element or compound is placed in a burning solution, the atoms absorb energy and promote electrons to “excited” energy levels, which are different from their normal ground state. Explain how this creates colored light.
3. What is the name for the spectrum of specific wavelengths produced by exciting an element?
4. Why is this spectrum different for every element?