



Opposition: Colored fire

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12. Colored fire

It is easy to colorize a flame using various chemicals. Identify the chemicals needed to get a specific color and investigate what color is obtained if a mix of two chemicals is used.

Task partially fulfilled.

Theory



- Bohr's model of the atom
- Energy to frequency
- Explained the electron jumps well



- Energy of the orbital of the electron
- $E_n = -R_u \cdot Z^2 / n^2$ – didn't mention
- $\Delta E = h \cdot \nu$

Experiment



- Used spectrometer
- Varied ratio of both metals



- Not enough experimental data
- Imperfect setup
- Light intensity lost with distance
- Constant anions for metals
- Not enough ratios to confirm the theory
- Didn't overlay 2 charts
- Volume not moles
- Didn't mention how the eye perceives these lights

Questions:

- Do you think your measurements are precise enough?

Questions:

Thank you for your Attention

Thank you!

