**Flame Test Data Table**

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| **Sample** | **Color** |
| Calcium Chloride |  |
| Copper Chloride |  |
| Copper Sulfate |  |
| Lithium Chloride |  |
| Potassium Sulfate |  |
| Potassium Chloride |  |
| Sodium Chloride |  |
| Sodium Sulfate |  |
| Strontium Chloride |  |

Which part of the chemical produces the distinctive color: the anion (last name) or cation (first name)?

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What are electrons doing to cause the bright spectral lines?

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