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| Sugar Content of Soft Drinks |
| Name: | Date: |
| Group members: |
| Table of data:Standard curve: |

|  |
| --- |
| Calculations:Conclusions: |

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| Report - Electromagnetic Waves I. |
| Name: | Date: |
| Group members: |

|  |  |
| --- | --- |
| Source | Spectrum |
| **Hydrogen lamp** |  |
| Analysis: |
| **Mercury lamp** |  |
| Analysis: |

|  |  |
| --- | --- |
| **Fluorescent tube** |  |
| Analysis: |
| **Incandescent source** |  |
| Analysis: |

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| --- |
| Comparison of Mercury lamp, fluorescent tube, and incandescent source: |

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| --- | --- | --- | --- |
| Solution | Predicted Wavelength Ranges Absorbed (from the table that you previously completed) | Predicted Wavelength Ranges Absorbed (from the spectra that you collected) | If there is a difference, provide your reasoning |
| CoCl2 |  |  |  |
| NiCl2 |  |  |  |
| FeCl3 |  |  |  |
| CuCl2 | 650–750 nm (all red)500–550 nm (some green) |  |  |
| NaCl |  |  |  |
| Summarize briefly what you learnt during this lab: |

|  |  |  |  |
| --- | --- | --- | --- |
| Gummi Bear | Red Laser | Green Laser | Purple Laser |
| Prediction | Observation | Prediction | Observation | Prediction | Observation |
| Red |  |  |  |  |  |  |
| Orange |  |  |  |  |  |  |
| Yellow |  |  |  |  |  |  |
| Teal |  |  |  |  |  |  |
| Green |  |  |  |  |  |  |
| Interpret your observations in terms of what color you expected to be absorbed, what color you didn’t, and if your expectations matched your observations |