Lab Report for 28/12/23:

* Absorbance measurements done for the varying copper concentrations.
* Conducted more tests for the varying copper concentrations using various solvents.
* Randomized tests conducted for the highest and lowest absorbance values (absorbance to be measured tomorrow).
* Prepared a new 0.05 moldm-3 CuSO4 standard using 1.250g.

Varying copper concentrations test

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| **Solvent** | **Cu2+concentration** | **Observations** | **Absorbance** |
| Water | 0.025 | Very pale yellow, low turbidity, high amount of particles | 0.116 |
| Water | 0.075 | Pale yellow, medium turbidity, brown ppt. | 0.182 |
| Ethanol | 0.025 | Pale yellow, high turbidity, brown ppt. | 0.119 |
| Ethanol | 0.075 | Dark yellow, very high turbidity, blue and brown ppt. | 0.186 |
| 50% Ethanol | 0.025 | Very pale yellow, medium turbidity, medium amount of particles | 0.107 |
| 50% Ethanol | 0.075 | Olive green, high turbidity, brown ppt. | 0.269 |
| 50% Methanol | 0.025 | Yellow, high turbidity, high amount of particles | 0.228 |
| 50% Methanol | 0.075 | Yellow, medium turbidity, high amount of particles | 0.182 |

* Tests for which data has not yet been collected for:
  + Methanol - 0.025 moldm-3 (copper concentrations test)
  + Methanol - 0.050 moldm-3 (randomized test)
  + Methanol - 0.075 moldm-3 (copper concentrations test)
  + 50% Methanol - 0.050 moldm-3 (copper concentrations test)
  + 50% Ethanol - 0.075 moldm-3 (randomized test)