Lab Plan for 4/10/23:

* Preliminary work: (making PPP)
  + Manually take off the peel of a ripe red pomegranate bought from a store
  + Wash the peel with water and cut it up into smaller pieces
  + Grind the cut peels until no visible changes can be seen
  + Store the powder in a freezer at -17oC overnight and use it the next day
* Lab work:
  + Lab work details:
    1. The objective is to determine whether PPP can act as a chelating agent for Cu2+ ions.
    2. Free periods: 8:40-10:20 (morning); 12:00-2:40 (afternoon)

Morning Session:

* First, the PPP will be split into four parts in four different flasks.
* Next, 30mL of each solvent (methanol, ethanol, acetone and chloroform) will be added to the beakers.
  + To ensure the same concentration of solvents, they will be diluted as required in the lab before use.
* Then the flasks will be put in the rotary shaker for 3 hours.
* During the preparation of the chelating solution, four 100mL copper (II) sulfate standards will be prepared with a concentration of 0.05 moldm-3 (which will require a total of (1.2484g\*4=) 4.994g of CuSO4).

Afternoon Session:

* After the 3 hour mark, the flasks will be removed from the rotary shaker and their contents will be filtered using filter paper.
* Next, each filtrate will be emptied out into a large flask (with a minimum volume of 150mL) and the standard solutions will be added to each beaker.
* The flasks will then be placed on the rotary shaker for 1 hour.
* Due to the unavailability of the spectrophotometer, a qualitative observation will be made of the change in the color of the solution.