Materials:

About 30 cm² of Aluminum Foil An unnamed "Blue Solution" An unnamed "Powder T" Water Different Pieces of Metal

Steel Wool Lighter Watch Glasses Small Spatula

Procedure: (Always Record ANY Evidences)

Part A: Aluminum Foil in the "Blue Solution"

- 1. Using masking tape, label your name(s) on one of the 250 mL beakers. Each group should pour <u>about</u> 100mL of the blue solution into the 250 ml beaker.
- 2. Take the piece of aluminum foil, and <u>gently</u> crumple the foil into a <u>very</u>, <u>very</u> <u>loose</u>, ball shape. If the ball is too tight it won't work as well. Drop the ball into the blue solution in the beaker.
- 3. Let it stand still for roughly 30 mins.

Optional (but highly recommended)

- 1. Take a small spatula and take a few large pieces of the precipitate and place them on the watch glass. Press another watch glass on top and rub them against each other while squeezing. Note any changes.
- 2. Use the steel wool and shine up the pieces of metal given. Use a pair of tongs and place them inside the flame of a lit lighter. Note any change in colour of the flame for each metal.
- 3. Wipe down the spatula with a paper towel and do the same thing with the precipitate on the watch glass. Take a piece of the precipitate and place it into the flame of the lit lighter. Note the colour change.

Part B: Powder "T" in Water

- 1. Get about 100 mL of water from the tap in the other 250 mL beaker.
- 2. Put a small scoop full of the "Powder T" and stir for about 5 to 10 minutes.

Statements of Understanding

- 1. What phenomenon are we investigating?
- 2. How can you explain the phenomenon using the evidences you collected?
- 3. What claims are you making from your explanations?
- 4. What do you think was left over in the beaker in Part A? How can you be sure of your previous answer?
- 5. Similarly, what additional test can you do to the beaker in Part B to support your claim earlier?