

Quest Homeschoolers Experiment Sheet

Experimenter:

Date:

Aim: To use a flame test to check for the presence of copper in various substances.

Method: Use a meths burner to produce a (nearly) colourless flame (which means let it burn for a little while before starting to use it). Use pliers or a spatula to hold the following over the flame: 1. A piece of fine copper wire; 2. A piece of thick copper wire; 3. A piece of copper sheet; 4. A copper coin; 5. A copper plated steel (ie, magnetic) coin; 6. Copper sulfate (CuSO_4) crystals; 7. Copper sulfate solution; 8. Copper carbonate (CuCO_3) powder; 9. Copper carbonate solution; 10. Junk mail with blue and/or green ink; 11. Junk mail with red and/or orange ink; 12. Unprinted junk mail (ie, from a margin).

Equipment: Test specimens as listed in Method, water, meths burner, lighter, metal spatula, pliers, magnet, test tubes, rubber bungs.

Observations:

Conclusions: