## Growing Crystals of KAl(SO<sub>4</sub>) <sup>x</sup> 12 H<sub>2</sub>0 and KCr(SO<sub>4</sub>)<sub>2</sub> <sup>x</sup> 12 H<sub>2</sub>0 potasium aluminum sulfate and potasium chromium sulfate

## **Materials:**

Beakers Safety glasses

Graduated cylinder Rocks
Hot Plates Hot Plates

**Clear Glasses or cups** 

KAl(SO<sub>4</sub>) x 12 H<sub>2</sub>0 and KCr(SO<sub>4</sub>)<sub>2</sub> x 12 H<sub>2</sub>0 Mix

## **Methods:**

- 1) Measure 80ml of water with a graduated cylinder (160ml if in pairs)
- 2) Boil water in a beaker (160ml if in pairs)
- 3) While water is warming, measure out 25 grams of the KAl(SO<sub>4</sub>)  $^{x}$  12 H<sub>2</sub>0 and KCr(SO<sub>4</sub>)<sub>2</sub>  $^{x}$  12 H<sub>2</sub>0 Mix
- Once the water begins to boil remove from heat and add the  $KAl(SO_4)^x$  12  $H_20$  and  $KCr(SO_4)_2^x$  12  $H_20$  mix and stir with a glass rod until in solution.
- 5) Place rocks into a labeled cup
- 6) Add the hot solution into the cup.
- 7) Carefully set the cup in an area that will not be disturbed