

E. 1. Heat potassium chlorate in a medium test tube (get chemical from me). Add a bit of manganese dioxide as a catalyst (what is a catalyst?). Mix by turning test tube. Heat. Test gas generated. Insert a burning splint to see what happens.

F. 1. Place an evaporating dish near the base of the burner.  
Examine a piece of magnesium ribbon.

2. Using crucible tongs, hold the sample in the burner flame until the magnesium starts to burn.  
**\*\* DO NOT LOOK DIRECTLY AT THE FLAME. HOLD THE BURNING MAGNESIUM AWAY FROM YOU AND DIRECTLY OVER THE EVAPORATING DISH.**

3. When the ribbon stops burning, put the remains in the evaporating dish. Examine this product carefully.



#### Data

Create a data table to include which reaction you are testing, the reactants, and your observations.