# Synthesis Instructions for Lab

Katheryn Ure, St Paul’s School for Girls and Irene A. Bal, Loyola University Maryland

## Synthesis of magnesium oxide reaction

### Equipment

Check you have all the equipment listed below:

* Crucible & lid
* Strip of Magnesium
* Tongs and/or heat proof glove
* Bunsen burner
* Clay triangle
* Ring stand or tripod
* Safety goggles for each person

### Instructions

Set up the equipment as shown in Figure 1.



Figure 1. How equipment should be placed. Safety goggles should be included.

* Place about 2-3cm of magnesium ribbon into the crucible and heat it with the Bunsen burner.
* Occasionally lift the lid using the tongs to allow air into the crucible. SAFETY – this is very hot!
* Make observations in your lab notebook.
* Once the reaction is complete, shut off the Bunsen burner and leave the items to cool.
* Start work, as a group, on the worksheet U4WS14AR. Use your phones to access the QR code and follow the instructions.