

Chemistry 101

**Prelab sheet for lab 3: The empirical formula of an oxide of magnesium**  
**Due date:** Beginning of class, Monday, July 16.

Given the sample data below, determine the empirical formula of an oxide of magnesium. For full credit, show the details of your calculation.

**Data Sheet**

Mass of empty crucible and lid \_\_\_\_\_ 80.000 g \_\_\_\_\_

Mass of crucible, lid and Mg strip \_\_\_\_\_ 83.039 g \_\_\_\_\_

Mass of crucible, lid and magnesium oxide \_\_\_\_\_ 87.039 g \_\_\_\_\_

Mass of magnesium \_\_\_\_\_

Mass of magnesium oxide \_\_\_\_\_

Mass of added oxygen \_\_\_\_\_

Empirical formula of an oxide of magnesium \_\_\_\_\_