

Name _____

Homework 23: the periodic table 2

1. Use the Periodic Table of the Elements to decide whether each of the following is a metal, a nonmetal, or a metalloid:
 - a. lithium (Li),
 - b. carbon (C),
 - c. sulfur (S),
 - d. calcium (Ca),
 - e. titanium (Ti),
 - f. bromine (Br).

2. Find magnesium on the periodic table.
 - What is magnesium's chemical symbol?

 - What family (group #) does magnesium belong to?

 - What period is magnesium in?

 - Is magnesium a solid, a liquid, or a gas?

Based on its family, would you expect magnesium to be very reactive, somewhat reactive, or not reactive at all?

3. What are two ways that compounds are different from the elements that form them?

4. The chemical formula for baking soda is **NaHCO₃**. What elements are in baking soda? How many of each kind of atom is represented by the formula for baking soda?