

# Exploring the Periodic Table

## 1. Columns and Rows

The periodic table is divided into three main sections: **metals**, **non-metals**, and **metalloids**. Elements are further organized into columns which are called **families**. Like all families, elements in the same family share similar physical and chemical properties.

The periodic table is also organized by horizontal rows or **periods**. These elements are not in the same family but there are patterns based on atomic size and reactivity.

In this activity you will work to find patterns or trends in the elements in the periodic table.

### **SUMMARY:**

a) What is the name of the columns of the periodic table?

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b) How are all the elements in the same column similar?

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c) What is the name of the rows of the periodic table?

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## 2) Solids, Liquids and Gases

Look at the periodic table at the back cover of the textbook. The Key identifies all the important information about atomic number, atomic mass, the chemical symbol, the state at room temperature and the ionic charge for each element.

a) Which colour print represents solids? \_\_\_\_\_

b) Which colour print represents liquids? \_\_\_\_\_

c) Which colour print represents gases? \_\_\_\_\_

d) Which elements are gases at room temperature? \_\_\_\_\_

e) Name two elements that are liquids at room temperature.

# Answers For Exploring The Periodic Table

**John T. Salinas**



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