**Element Trading Card Project**

**RESOURCES INTRODUCTI**ON

For many years scientists searched for a way to organize the known elements of the universe onto a useful chart or table. It was not until the mid-1800s that a Russian chemist by the name of Dmitri Mendeleev recognized hidden patterns that could be used to organize the elements. Mendeleev wrote down many of the known properties of each element on small pieces of paper. By arranging the elements in order of their atomic mass he began to see patterns emerge. Although today's Periodic Table is different from Mendeleev's, his Periodic Table became the first useful system for the classification of the elements. Each element on the Periodic Table has its own unique physical and chemical properties. Some of the elements have important uses. Some were discovered a long time ago and some are man-made. The Periodic Table of Elements is an important resource for scientists. It provides a wide range of information about the elements. In this project, you will learn about one of these elements. You will also learn how it fits into the arrangement of elements on the Periodic Table.

**TASK**

You will select one of the elements on the Periodic Table (only one student per element). Using the Internet and other resources, you will research your element. You will then create a informational card of you element to be a part of a giant Periodic Table of Elements.

**REQUIREMENTS**

Using the Internet or other resources available in the library thoroughly research your element. Create an Element Tile on a piece of paper. Be sure to include the following:

• Element Symbol • Element Name • Atomic Number • Atomic Mass • Is it a solid, liquid or gas at room temperature? • Is it a metal, nonmetal or metalloid? • How did it get its name? • Physical / Chemical Properties such as melting point, boiling point, color, flammability, magnetic properties, conductivity, malleability, etc. • Facts (must have 3: such as how it is used, what compounds it makes, where it is found in nature, how it got its name, who discovered it etc.) • Picture / drawing of atomic model. The model should include the correct number of protons, neutrons, and electrons, and orbital rings in the correct places