

Organizing the Elements

Key Ideas

- ▶ How did Mendeleev arrange the elements in his periodic table?
- ▶ How are elements arranged in the modern periodic table?

Key Terms

periodic law
period
group

Why It Matters

Gold and silver—both used in jewelry—have similar properties and are, therefore, located in the same column of the periodic table.

Scientists in the 1800s knew some of the chemical and physical properties of more than 60 elements. However, there was no general system of organizing the elements. To find a way to organize the elements, scientists studied the elements and the properties of the elements.

Recognizing a Pattern

Dmitri Mendeleev, a Russian chemist, was one of the first scientists to design a way of organizing the elements. He studied the properties of the elements and looked for patterns among the properties. He found that if the elements were listed by increasing atomic mass, certain properties appeared at certain intervals within the list.

In 1869, Mendeleev published the first periodic table of the elements. ▶ In this periodic table, Mendeleev arranged elements in rows by increasing atomic mass. He started a new row each time the chemical properties of the elements repeated. So, for any column, all of the elements in that column had similar properties. **Figure 1** shows Mendeleev's handwritten list of the elements and a copy of his published table.

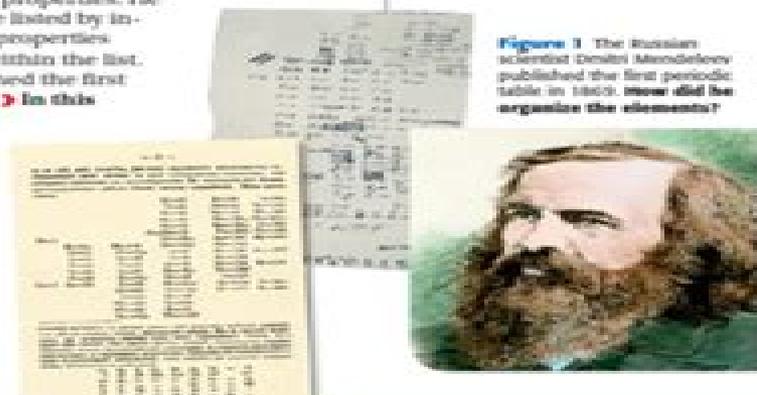


Figure 1 The Russian scientist Dmitri Mendeleev published the first periodic table in 1869. **How did he organize the elements?**

Key Resources

- Teaching Transparencies**
C11 The Periodic Table
TM15 The Periodic Table
- Visual Concept**
Periodic Table Overview
- Cross-Disciplinary Worksheet**
Connection to Language Arts—
Chemical Symbols

Focus

In this section, students study the organization of the periodic table. They learn about how Mendeleev first arranged elements in order of increasing atomic mass and observed periodic trends in their properties. Also, they learn how the modern periodic table is arranged by atomic number and demonstrates periodic law.

Bellringer

Use the Bellringer transparency to prepare students for this section.

Demonstrate

Periodic Calendar Show students a large, one-month calendar and ask them to make a list of things that they put on their calendars at home. Ask volunteers to read their lists and, as they do so, write the items on the calendar each time they occur. Ask students: “What types of items did you list?” (Answers will vary but could include appointments, weekly music lessons, and daily practices.) “What items appear in a regular pattern, or are periodic?” (Answers should include items that occur on a monthly, weekly, or daily basis.) **15 Intrapersonal**

Answer to caption question

Mendeleev organized the elements in rows by increasing atomic mass, starting a new row each time the chemical properties repeated.

Section 3 1 Organizing The Elements Answers

J Dewey



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