

Skim Lesson 1 in your book. Read the headings, and look at the photos and illustrations. Identify three things you want to learn more about as you read the lesson. Record your ideas in your Science Journal.

Main Idea

What is the periodic table?

I found this on page _____.

I found this on page _____.

Developing a Periodic Table

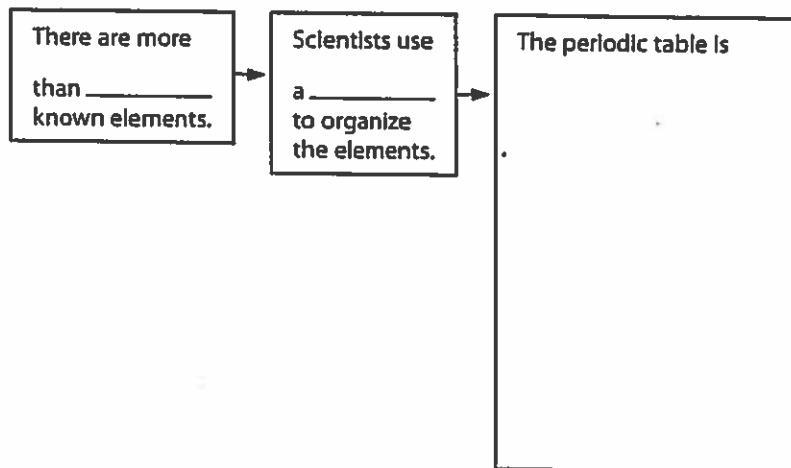
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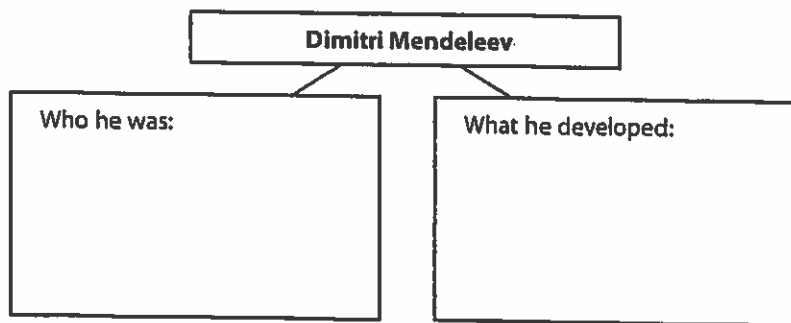
Details

Define periodic table.

Organize information about the periodic table in the chart below.



Discuss information about Mendeleev.



Name four properties of elements that Mendeleev studied when developing his periodic table.

- | | |
|----------|----------|
| 1. _____ | 3. _____ |
| 2. _____ | 4. _____ |

Lesson 1 | Using the Periodic Table (continued)

Main Idea

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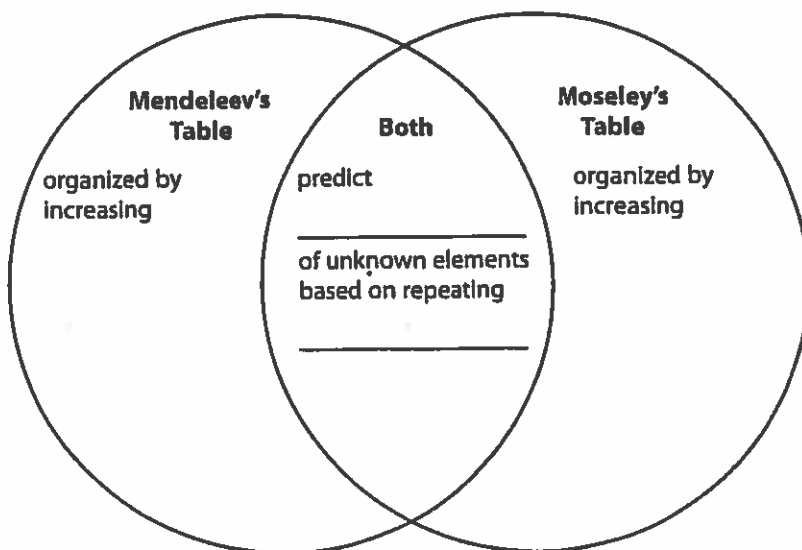
Today's Periodic Table

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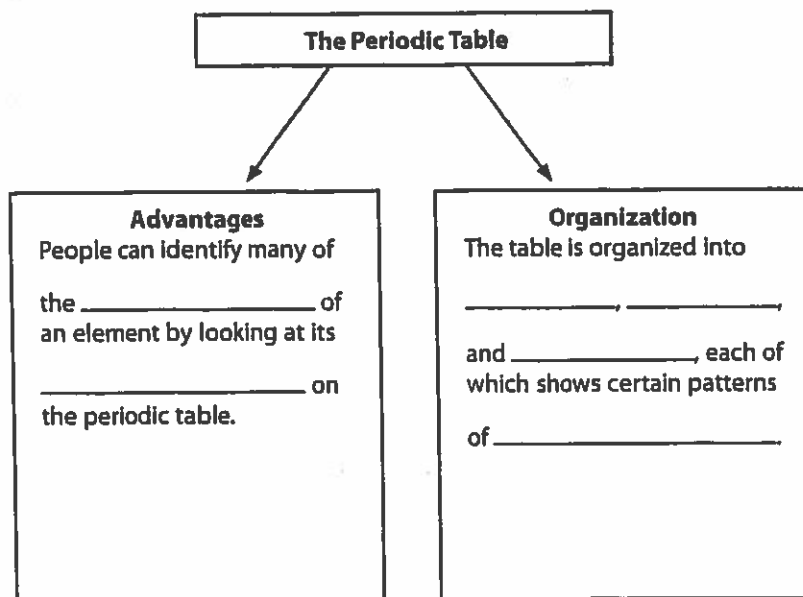
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Recall the definition of atomic number.

Compare Mendeleev's periodic table with that of Moseley by completing the Venn diagram.



Discuss today's periodic table in the organizer below.




Main Idea


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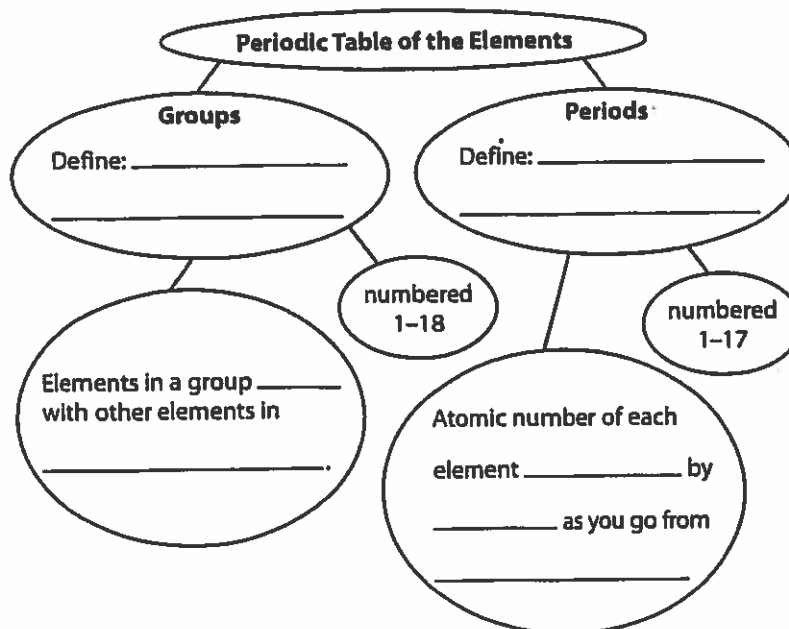
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Details

 **Interpret** the symbols on the element key below. Identify what each symbol stands for.

→ Sulfur	
→ 16	
→ S	
→ 32.07	

 **Organize** information about how the periodic table is arranged by completing the concept map.



 **Classify** elements by completing the chart.

	Position on the Periodic Table	Properties
Metals		
Nonmetals		
Metalloids		


Main Idea

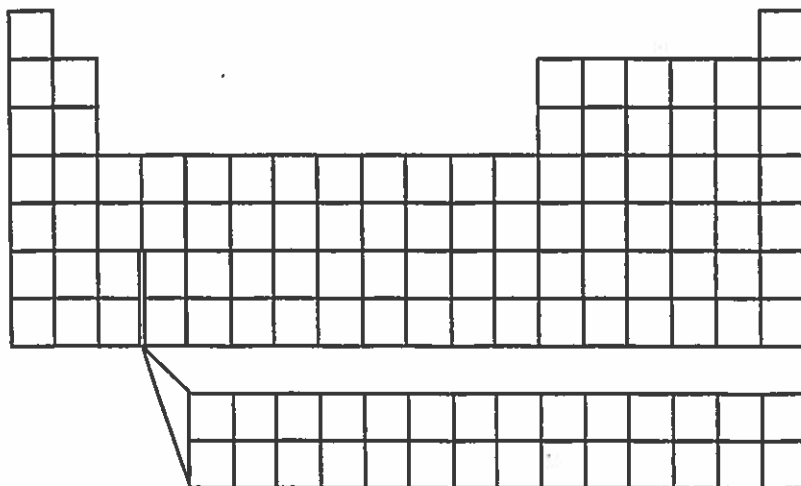
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How Scientists Use the Periodic Table

I found this on page _____.


Details

 **Identify** the regions of the periodic table as metals, nonmetals, or metalloids. Color each region with a different color. Label each area that you shade.



Assess information about the periodic table. Read the statement below. If the statement is true, write true on the line. If it is false, rewrite the underlined portion of the statement so that it is true.

When scientists produce a few atoms of a synthetic element in the laboratory, they have no way to determine the element's properties.

 **Analyze It** Earth's atmosphere is composed mostly of nitrogen and oxygen. In order to float, a balloon has to be filled with something that is lighter than air. Use the information on the periodic table to find out which elements might be suitable for making a balloon float. Explain your choice or choices.
