

# Exploring the Periodic Table

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Name: \_\_\_\_\_ Date: \_\_\_\_\_

## LEARNING OBJECTIVE

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The student will use a periodic table to locate elements and identify patterns in groups (columns) and periods (rows).

## MATERIALS NEEDED

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- Printed periodic table
- Index cards (10)
- Colored pencils
- Ruler
- Pencil

## HANDS-ON ACTIVITY

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1. On your printed periodic table, use one color to shade all the metals, another color for nonmetals, and a third color for metalloids, using the table's key.
2. Choose 10 elements from around your house (check food labels, vitamin bottles, batteries, or jewelry) and make one index card per element listing its symbol, atomic number, and one fact about where you found it.
3. Sort your 10 index cards into a row on the table, ordered by atomic number from lowest to highest.
4. Circle two elements on your periodic table that are in the same GROUP (column) and, using your ruler, draw a line connecting them; write one similarity they likely share.
5. Circle two elements in the same PERIOD (row) and write one thing that changes as you move across that row.

## QUESTIONS

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1. List the 10 elements you found around your house, with their symbols.
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2. What do elements in the same GROUP (column) of the periodic table have in common?
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3. What generally happens to atomic number as you move left to right across a PERIOD (row)?

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**4. Name one metal, one nonmetal, and one metalloid from your shaded table.**

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