

THE PERIODIC TABLE

A chemical element is any one of the known kinds of basic chemical substances. The periodic table arranges the elements in horizontal rows, called periods, according to their atomic number. Use the periodic table on page 59 and the clues about the elements below to identify the Russian chemist who devised the most common periodic table. The circled letters, when written in order at the bottom of the page, will spell out his name.

Which element . . .

- 1. has an atomic number of 86? _____○_____
- 2. appears directly above sodium? _____○_____
- 3. appears to the left of neon? _____○_____
- 4. has an atomic number of 7? _____○_____
- 5. appears directly above silver? _____○_____
- 6. has the symbol Fe? _____○_____
- 7. has the symbol K? _____○_____
- 8. appears directly below tin? _____○_____
- 9. appears to the left of copper? _____○_____
- 10. appears directly below barium? _____○_____
- 11. has an atomic number of 53? _____○_____
- 12. appears directly below oxygen? _____○_____
- 13. has an atomic number of 1? _____○_____
- 14. appears directly below phosphorus? _____○_____
- 15. has an atomic number of 23? _____○_____

Who was the chemist?



A SEARCH THROUGH THE PERIODIC TABLE

Use the periodic table of elements on page 59 to complete this activity.

1. Of the first 103 elements, how many have just one letter in their symbols? _____
2. How many have two letters in their symbols? _____
3. Name some elements that have a one-letter symbol that is also the first letter of the word.

_____	_____	_____
_____	_____	_____
_____	_____	_____

4. Name some elements that have two-letter symbols that are the first letters of the word.

_____	_____	_____
_____	_____	_____
_____	_____	_____

5. Name some elements that have a symbol that is entirely different from the spelling of the word.

_____	_____	_____
_____	_____	_____
_____	_____	_____

6. Name some elements that are named after people.

_____	_____	_____
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7. Name some elements that are named after planets.

_____	_____	_____
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8. Name some elements that are named after a city, a state, a country, or a university.

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