

Why aren't the elements listed in alphabetical order?

Why aren't the elements listed in alphabetical order?

As charts go, the periodic table is a bit odd. It's not square. Large portions of the table appear to be missing at the top. It's not organized alphabetically so elements can be found easily. But to a chemist, the periodic table is a very powerful tool. The periodic table is organized by properties, both chemical and physical. Those properties relate to the electronic structure of the atoms of each element. In today's activity, you are going to study how the ground state electron configurations and structure of atoms are related to the shape and organization of the periodic table.

A blank periodic table grid with the following structure:

- Periods (rows):** 1 to 7.
- Groups (columns):** 1 to 18.
- Labels:**
 - s-block:** Groups 1 and 2.
 - p-block:** Groups 13 to 18.
 - d-block:** Groups 3 to 10.
 - f-block:** Groups 14 to 17 (located below the main grid).
- Blank cells:** All cells are empty for element entry.

1. Obtain a card with electron configurations for your group as assigned by your teacher.
 - a. Record your team number_____ and team name _____
 - b. For each element on your card, write the end of the configuration (the underlined portion).
2. What is similar about the last orbital notation appearing at the end of the configuration for each element in your set?

Cracking The Periodic Table Code

Lawrie Ryan



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them Finally the authors delve into quantum physics latest and perhaps most breathtaking offshoots field theory and string theory The intricacies and ramifications of these two theories will give the reader much to ponder In addition the authors describe the diverse applications of quantum theory in its almost countless forms of modern technology throughout the world Using eloquent analogies and illustrative examples Quantum Physics for Poets renders even the most profound reaches of quantum theory understandable and something for us all to savor **A Meaningful World** Benjamin Wiker,Jonathan

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