

# Cracking the Periodic Table Code

Why aren't the elements listed in alphabetical order?

## Why?

As chemists 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. These 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.

## Model 1 – Blank Periodic Table

The diagram shows a blank periodic table grid. The rows are numbered 1 to 7 on the left. The columns are numbered 1 to 18 at the bottom. The s-block is labeled as the first two columns. The p-block is labeled as the last six columns. The d-block is labeled as the middle ten columns, starting from row 4. The f-block is a separate row of 14 columns below the main grid.

- Obtain a card with electron configurations for your group as assigned by your teacher.
  - Record your team number \_\_\_\_\_ and team name \_\_\_\_\_.
  - For each element on your card, write the end of the configuration (the unsharpened portion).
- 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 Pogil Answer Key

**G Orfield**



**Cracking The Periodic Table Code Pogil Answer Key:**

The Enigmatic Realm of **Cracking The Periodic Table Code Pogil Answer Key**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Cracking The Periodic Table Code Pogil Answer Key** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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