

Dmitri Mendeleev:

- arranged elements by _____ .
- predicted _____ of missing _____ .

Henry Moseley:

- discovered that each _____ has a unique _____ .
- arranged elements by _____ .
- now all elements fit into place based on properties

Modern Periodic Law:

Properties of elements _____ when elements are arranged by _____ .

Questions about the extended periodic table:

Why do you think these elements get pulled out?

Which element is in a different column than we are used to?

What happens to the number of the energy level as you begin each new row?

What is the similar characteristic in each column?

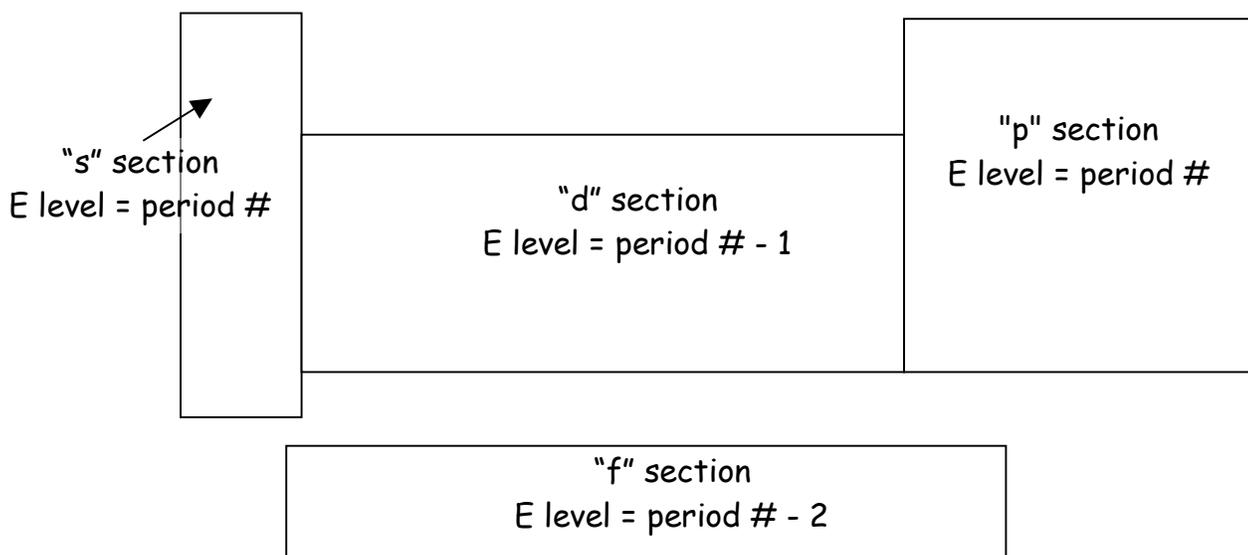
Elements in the same column:

- have similar _____.
- have same number of _____.
- have similar _____.
- Electron distribution for Ne: _____
Kr: _____

Noble Gases:

- have _____ outer _____.
- have _____ valence _____.
- are _____.

Using periodic table to find electron distributions:



Noble Gas Distributions - Find noble gas on end of row before the element and put its symbol in brackets.

Use diagonal rule to write electron distribution of Sn (atomic no. 50):

Use noble gas distribution to write electron distribution of Sn:

The Chemistry Quiz

CR1.

CR2.

1.

2.

3.

4.

5.