Chapter 5 Study Guide Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Physical Science Mr. Rosener

**Section 1**

Who was Dmitri Mendeleev?

How did Mendeleev arrange his Periodic Table?

What is a Valence Electron?

What is the Valence Electron pattern found on the Periodic Table?

What is the Valence Number pattern found on the Periodic Table?

**Section 2**

Who was Henry Mosley?

How did Mosely arrange his periodic table?

Periods go which way on the Period Table?

Are elements in a period similar? Why or why not?

How many valence electrons can fit in the 1st Energy Level

2nd Energy Level

3rd Energy Level

Groups or Families go which way on the Period Table? Why or why not?

Where are the metal, nonmetals, and metalloids found on the periodic table?

**Section 3**

Name the Eight Families of Elements on the Period Table (Do not include the Transition Metals)

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| --- | --- | --- | --- |
| Family Name | Name 3 Elements in this Family | # of Valence  Electrons | Properites |
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Why do all of the elements chemically react with other elements?