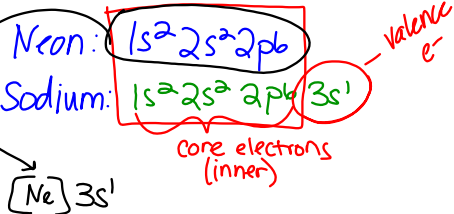


Practice:

Write the electron configuration for sodium and neon:

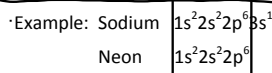


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Noble Gas Notation (Configuration):

--Noble gases are located in group 18 or group VIII A on the periodic table.

--The symbol of the element in brackets [] can be used to represent the nucleus and the inner (core) electrons



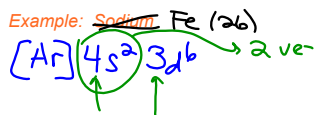
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Noble Gas Configuration

-short hand way of writing electron configurations

Steps for writing Noble Gas Configurations:

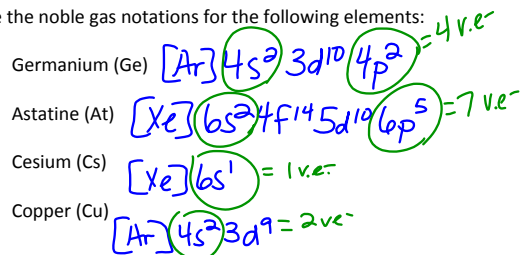
1. Find the element on the periodic table
2. Go up one period and over to the noble gas
3. Write the noble gas symbol in brackets []
4. Continue writing the electron configuration starting with the element following the noble gas



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Noble Gas Notation Practice

Write the noble gas notations for the following elements:

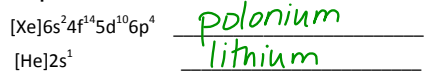


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Noble Gas Notation Practice

Elements can be identified based on their noble gas notation

Examples:

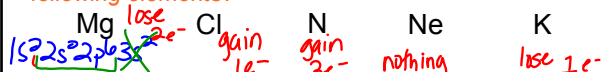


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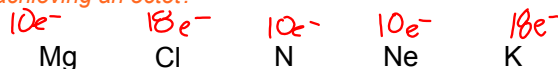
Ions and Configurations

Octet Rule: atoms will gain or lose electrons to achieve a full outershell -- 8 valence electrons

How many electrons will be gained or lost by the following elements?



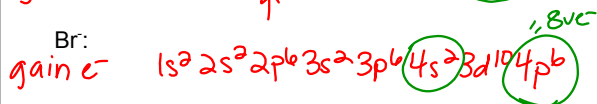
How many total electrons will each element have after achieving an octet?



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Ions and Configurations

Write the electron configuration for the following ions:



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