

Name: _____
 Period: _____

Metals vs. Non-Metals; Dot Diagrams; Ions

Ch. 19.1

Metals versus Non-Metals

The dividing line is the red or bold black line from between Boron and Aluminum down and to the right. Everything to the left is a metal; to the right, non-metal. One exception (don't ya just hate that?!) is hydrogen – a non-metal.

Sodium (Na) is a metal.

Oxygen is a non-metal.

| Metal or Non-metal? | |
|---------------------|-----------------|
| Potassium: _____ | Fluorine: _____ |
| Bromine: _____ | Hydrogen: _____ |
| Beryllium: _____ | Silver: _____ |
| Helium: _____ | Nitrogen: _____ |

*Metals are on the left side. Non-metals on the right.
 Metals tend to lose electrons. Non-metals gain them tight.*

| | | | | | | | | | |
|----------|----------|--|----------|----------|----------|----------|----------|----------|---------|
| 1 H | | | | | | | | | 2 He |
| 3 Li | 4 Be | | 5 B | 6 C | 7 N | 8 O | 9 F | 10 Ne | |
| 11 Na | 12 Mg | | 13 Al | 14 Si | 15 P | 16 S | 17 Cl | 18 Ar | |
| 19 K | 20 Ca | | 31 Ga | 32 Ge | 33 As | 34 Se | 35 Br | 36 Kr | |

Non-metal (exception)

Dividing line

Non-Metals

Metals

Easy to remember by which side iron (Fe) is on—the left side!

On either side of the divide are the metalloids or semi-metals—they have characteristics of both B, Si, Ge, As.

Dot Diagrams

Dot Diagrams (sometimes known as Lewis dot diagrams) are a depiction of an atom's valence electrons. They are a powerful tool in helping you understand, see, and even predict molecular bonding.

Put the correct number of valence electrons around the chemical symbol in this order in pairs:



Neon has 8 valence electrons (in the right-hand column).
 Neon has no unoccupied spaces.
 It is full.

Notice that the electrons are in pairs, not a circle.

Why would the electrons spread out around the atom instead of bunching up?

Draw the Dot Diagrams for the following elements:

Beryllium

Sodium

Helium

Carbon

Boron



Lithium, with 1 valence electron (first column).



Carbon has 4 valence electrons



Oxygen has 6 valence electrons.
 How many more before it's full?

Metals Vs Nonmetals Dot Diagrams Ions Worksheet

Answer Key

Robert R. Redfield



Metals Vs Nonmetals Dot Diagrams Ions Worksheet Answer Key:

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