Name:	
Date:	Core:

Guided Notes- The Periodic Table

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- Elements!

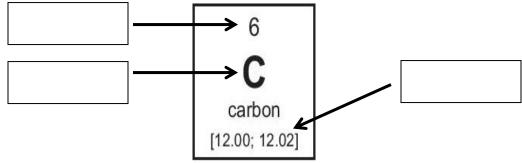
Mendeleev

- Dimitri Mindeleev was one of the first scientists to notice that some elements seemed to
- In 1869 Mendeleev created the first periodic table with the
 we had discovered at the time
- Mendeleev said properties of unknown elements could be
 ______ based on the properties of elements
 _____ in the periodic table

Our Modern Periodic Table

- The periodic table is an ______ that arranges all the elements we have created or discovered by _____ and
- Each element has its own one or two letter symbol based on its English or Latin name (the first letter is always capitalized)
- The table is designed to show patterns in the properties of elements

Looking at individual elements



- Atomic Number- # of ______ in <u>ONE</u> atom of an element, same as # of ______ if atom is
- Atomic Mass The mass of ______ of the element.
- Symbol- _____ the element

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Atomic Number- the number of	(+), will also
equal the number of	(-) <u>in a</u>
atom.	
 This is true because in a neutral ator 	m the charge is and
protons and electrons will cancel ou	ıt
Atomic mass- the mass of	of an element. Can be used to
find the number of	(0).
Atomic mass- atomic number = # o	f neutrons . ROUND TO THE NEAREST
WHOLE NUMBER	
 This is true because the mass of an expension 	electron is
	so the mass is entirely made up of the
mass of(+) an	nd(0)
<u>riods</u>	
• Eachrow	of the periodic table is called a
• The atomic number, atomic mass, and t	the number of valence electrons all
from left to	o right.
• The transition metals are an exception	because they have a
of v	valence electrons
<u>oups</u>	
• Each of the p	eriodic table is called a
or family	
• Each one is given a name that shows th	at the elements in the column have
the	and
the sar	
• Elements of the same group have the _	O
valence electrons (except transition me	\+alc\