The Periodic Table Exam Review

Who designed the first Periodic Table and how was
it arranged? Medel eev; increasing atomic mass
Who designed the modern Periodic Table and how is it arranged? Moslowing increasing domical Reviolation. Write the name that is given to the following groups
of elements:
Group A Elements: <u>representative</u> element
Group B Elements: <u>Mansition Metals</u>
Group 1A Elements: <u>Alkali metals (NOTH)</u>
Group 2A Elements: alkaline earth metals
Group 7A Elements: Nalogens
Group 8A Elements: Noble gases
* Every element want needs to become stable-like a noble gas! * Noble gases have a full valence shelf of electrons!

The two rows of elements at the bottom of the
Periodic Table: inner transition metals
Fill in the blanks with s, p, d, or f block:
Inner transition metals:
Groups 1A&2A:
Transition metals:
Groups 3A-8A(or 0):
TAPKIN T
Arrange the elements Li, Cs, and F in order of increasing atomic sizes: _F_, _Li_, _Cs
In each pair, circle which radius is larger: tiny cats(t) K or K+ Br or Br Jainede giant ants
Define ionization energy
(IE): the amount of energy required to
remove an electron!
He is the
In Market

In general, ionization energyas
you go across a period and decrease as
you go down a group.
Circle the element that has the lower IE: (farther line)
Cl or Na
Define electronegativity: ability to attact an electronegativity: (we they are full of or)
F is highest
Rank the elements B, F, Cs, and K from lowest electronegativity to highest:,,,,
ENGLISHE CLOSE
In general, nonmetals have (low or high) electronegativity and tend to (lose or gain) electrons when they form ions.
Rank the elements Al, Na, and O in order of increasing ionization energy: NA, Al,
He week the

Circle which element or ion would be smaller:

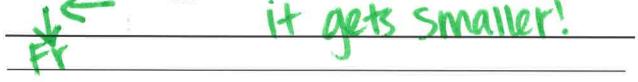
Ca or Ca²⁺

O or O²⁻

Br or Br Na or Na⁺



As you move from left to right across the periodic table, what happens to the size of an atom?



Which element on the periodic table has the highest electronegativity?

Why is the previous answer NOT Helium?

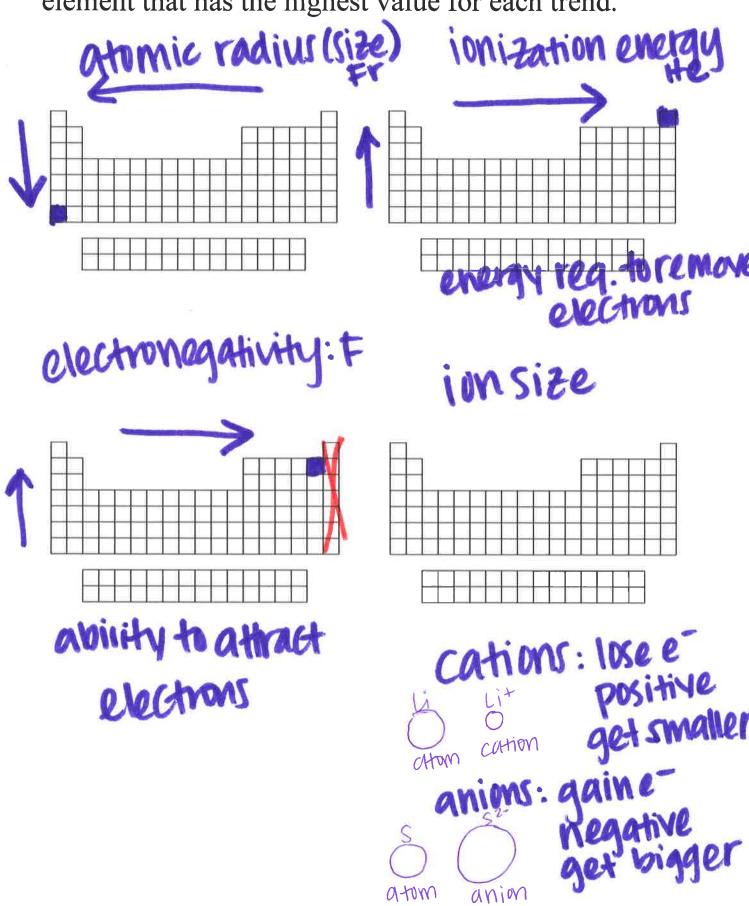
they have a fall valence shell of electrons

Circle the element in each pair that has the greatest atomic radius.

sodium or lithium
strontium or magnesium
carbon or germanium
selenium or oxygen

The scientist that first developed the periodic table
was Mondolov . He arranged the
elements according to increasing atomic
The modern periodic table
was designed by, who arranged
the elements according to increasing atomic
number.
Arrange the following elements in order of increasing ionization energy. Be, Mg, Sr St Mg Be Bi, Cs, Ba CS Ba Bi Na Al S
Na, Al, S Circle the particle that has the larger radius in each atom/ion pair.
Al ⁺³ or Al (S^{-2}) or S N^{+3} or (N^{-3}) $+iny cat(t)$ $-iny cat(t)$

Draw and label the periodic trends. Fill in the element that has the highest value for each trend.



atom