## Dougherty Valley HS Chemistry Periodic Trends – Practice Ranking

## Worksheet #7

Name: Period: Seat#:

**Review your Periodic Table Structure knowledge:** 1) Where are the most 2) Where are the most 3) As you go across a period  $\rightarrow$ , does the active metals located? atomic size decrease or increase? active non-metals located? Why? 4) As you travel down a group, does the 6) Is a positive ion larger 5) Is a negative ion atomic size decrease or increase? Why? larger or smaller than or smaller than its parent atom? its parent atom? **7)** As you go from left to right 8) As you go down a group, does 9) Where is the highest electronegativity across a period, does the first the first ionization energy ionization energy generally generally decrease of increase? found? decrease or increase? Why? Why? **10)** Where is the lowest 11) Elements of Group 1A are 12) Elements of Group 2A are electronegativity found? called: called: 13) Elements in the middle of the **14)** Group 7A elements are **15)** Group 8A elements are periodic table are called: called: called: **16)** From left to right across the 17) The most active element in **18)** What type of orbitals are periodic table, do the Group 7A is: filling across the Transition elements go from metals to Elements? nonmetals, or nonmetals to metals? **19)** Elements within a group have 20) Are the majority of elements 21) Elements in the periodic table the same number of what? in the periodic table metals are arranged according to or nonmetals? their what?

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-7-71	from smallest to lar			00) 41 61 6
<b>22)</b> Li, C, F	<b>23)</b> Li, Na, K	<b>24)</b> Ge, P, O	<b>25)</b> C, N, Al	<b>26)</b> Al, Cl, Cu
	from lowest to high			
<b>27)</b> Mg, Si, S	<b>28)</b> Mg, Ca, Ba	<b>29)</b> F, Cl, Br	<b>30)</b> Ba, Cu, Ne	<b>31)</b> Si, P, He
Rank the atoms 32) Li, C, N	from lowest to high	est electronegativi	<b>ity energy. 35)</b> Mg, K, P	<b>36)</b> S, F, He
<b>32,</b> 2, 5,			55,	
	from smallest to lar	gest electron affin	ity	
Rank the atoms				
Rank the atoms 37) Li, C, F	<b>38)</b> Li, Na, K	<b>39)</b> Ge, P, O	<b>40)</b> C, N, Al	<b>41)</b> Al, Cl, Cι
	<b>38)</b> Li, Na, K	<b>39)</b> Ge, P, O	<b>40)</b> C, N, Al	<b>41)</b> Al, Cl, Cu
		<b>39)</b> Ge, P, O	<b>40)</b> C, N, Al	<b>41)</b> AI, CI, Cu
<b>37)</b> Li, C, F		<b>39)</b> Ge, P, O	<b>40)</b> C, N, Al	<b>41)</b> AI, CI, Cu

Circle the	correct	element.
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Li	Si	S	metal
N	Р	As	smallest ionization energy
K	Ca	Sc	largest atomic mass
S	Cl	Ar	member of the halogen family
Αl	Si	Р	greatest electronegativity
Ga	Αl	Si	largest atomic radius
V	Nb	Ta	largest atomic number
Te	I	Xe	member of noble gases
Si	Ge	Sn	4 energy levels
Li	Be	В	member of alkali metals
As	Se	Br	6 valence electrons
Н	Li	Na	nonmetal
Hg	ΤI	Pb	member of transition metals
Na	Mg	Αl	electron config. ending in s <sup>2</sup> p <sup>1</sup>
Pb	Bi	Po	metalloid
В	С	Ν	gas at room temperature
Ca	Sc	Ti	electron config. ending in s <sup>2</sup> d <sup>2</sup>