

Name _____ Period _____

College Prep Chemistry of the Earth System

Assignment 3J

30 Points

Periodic Trends

For each pair of elements or ions, write the element / ion that has a larger / greater

Neutral Atom	Ion (cation/anion)	Larger Atom/Ion	Neutral Atom	Ion (cation/anion)	Larger Atom/Ion
Na	Na ¹⁺		O	O ²⁻	
Cu	Cu ³⁺		Cl	Cl ¹⁻	

First Atom	Second Atom	Larger Atom	First Atom	Second Atom	Larger Atom
Be	Mg		Si	S	

First Atom	Second Atom	Larger Ionization Energy	Larger Electron Affinity	Larger Electronegativity
Li	K			
Ni	Pt			
O	Se			
Na	Al			
Ag	Cd			
P	Cl			

First Atom	Second Atom	Higher Melting Point	First Atom	Second Atom	Higher Melting Point
Ca	V		Be	C	

Use Chart from PowerPoint/In Class Notes to complete above chart