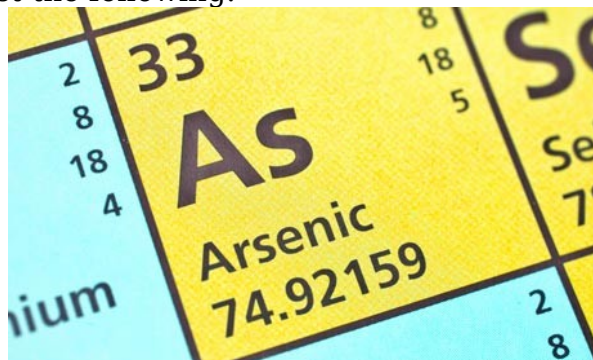


Name \_\_\_\_\_

Period \_\_\_\_\_

### Reading the Periodic Table

Here is a square from a periodic table. Please list the following:



1. Element name \_\_\_\_\_
2. Chemical symbol \_\_\_\_\_
3. Atomic number \_\_\_\_\_
4. Atomic mass \_\_\_\_\_
5. Number of protons \_\_\_\_\_
6. Number of electrons \_\_\_\_\_
7. Number of neutrons \_\_\_\_\_
8. What is an isotope? \_\_\_\_\_
9. What are the two most likely isotopes of arsenic? \_\_\_\_\_
10. What is an ion? \_\_\_\_\_
11. Find arsenic on the periodic table. Is it a taker or giver? \_\_\_\_\_
12. What ion would arsenic most likely form? \_\_\_\_\_
13. What are three noble gases? \_\_\_\_\_
14. What are two elements that form +1 ions? \_\_\_\_\_
15. What are two elements that form -1 ions? \_\_\_\_\_

Look at element #12. Identify the following

16. Protons \_\_\_\_\_
17. Electrons \_\_\_\_\_
18. Neutrons \_\_\_\_\_
19. Ions \_\_\_\_\_
20. Two isotopes \_\_\_\_\_
21. List two elements in the same family as #12 \_\_\_\_\_
22. Which of the following will react the most violently?

C (#6)      Al (#13)      Li (#3)      Cs (#55)      Sc (#21)

23. Which of the following will react the most violently?

B (#5)      F(#9)      Au(#79)      C (#6)      I (#53)

BONUS: Draw the Bohr model of element #12

hydrogen 1 <b>H</b> 1.0079	beryllium 4 <b>Be</b> 9.0122	lithium 3 <b>Li</b> 6.941	sodium 11 <b>Na</b> 22.990	magnesium 12 <b>Mg</b> 24.305	calcium 20 <b>Ca</b> 40.078	potassium 19 <b>K</b> 39.098	rubidium 37 <b>Rb</b> 85.468	caesium 55 <b>Cs</b> 132.91	francium 87 <b>Fr</b> [223]	scandium 21 <b>Sc</b> 44.956	yttrium 39 <b>Y</b> 88.906	lanthanum 57 <b>La</b> 138.91	cerium 58 <b>Ce</b> 140.12	praseodymium 59 <b>Pr</b> 140.91	neodymium 60 <b>Nd</b> 144.24	promethium 61 <b>Pm</b> [145]	samarium 62 <b>Sm</b> 150.36	europium 63 <b>Eu</b> 151.96	gadolinium 64 <b>Gd</b> 157.25	terbium 65 <b>Tb</b> 158.93	dysprosium 66 <b>Dy</b> 162.50	holmium 67 <b>Ho</b> 164.93	erbium 68 <b>Er</b> 167.26	thulium 69 <b>Tm</b> 168.93	ytterbium 70 <b>Yb</b> 173.04	vanadium 23 <b>V</b> 50.942	niobium 41 <b>Nb</b> 92.906	antimony 51 <b>Sb</b> 121.76	indium 49 <b>In</b> 114.82	tin 50 <b>Sn</b> 118.71	lead 82 <b>Pb</b> 207.2	bismuth 83 <b>Bi</b> 208.98	thallium 81 <b>Tl</b> 204.38	ununoctium 114 <b>Uuq</b> [289]	zinc 30 <b>Zn</b> 65.39	cadmium 48 <b>Cd</b> 112.41	mercury 80 <b>Hg</b> 200.59	unubium 112 <b>Uub</b> [277]	gallium 31 <b>Ga</b> 69.723	germanium 32 <b>Ge</b> 72.61	arsenic 33 <b>As</b> 74.922	selenium 34 <b>Se</b> 78.96	bromine 35 <b>Br</b> 79.904	krypton 36 <b>Kr</b> 83.80	boron 5 <b>B</b> 10.811	carbon 6 <b>C</b> 12.011	nitrogen 7 <b>N</b> 14.007	oxygen 8 <b>O</b> 15.999	fluorine 9 <b>F</b> 18.998	neon 10 <b>Ne</b> 20.180	helium 2 <b>He</b> 4.0026						
										titanium 22 <b>Ti</b> 47.867	zirconium 40 <b>Zr</b> 91.224	hafnium 72 <b>Hf</b> 178.49	rutherfordium 104 <b>Rf</b> [261]	dubnium 105 <b>Db</b> [262]	seaborgium 106 <b>Sg</b> [266]	bohrium 107 <b>Bh</b> [264]	hassium 108 <b>Hs</b> [269]	meitnerium 109 <b>Mt</b> [268]	ununnium 110 <b>Uun</b> [271]	ununium 111 <b>Uuu</b> [272]	unundecium 112 <b>Uub</b> [277]																																				
										niobium 41 <b>Nb</b> 92.906	molybdenum 42 <b>Mo</b> 95.94	technetium 43 <b>Tc</b> [98]	ruthenium 44 <b>Ru</b> 101.07	rhodium 45 <b>Rh</b> 102.91	nickel 28 <b>Ni</b> 58.693	iron 26 <b>Fe</b> 55.845	cobalt 27 <b>Co</b> 58.933	nickel 28 <b>Ni</b> 58.693	zinc 30 <b>Zn</b> 65.39	silver 47 <b>Ag</b> 107.87	gold 79 <b>Au</b> 196.97	mercury 80 <b>Hg</b> 200.59	unundecium 111 <b>Uuu</b> [272]																																		
										tin 50 <b>Sn</b> 118.71	antimony 51 <b>Sb</b> 121.76	tellurium 52 <b>Te</b> 127.60	iodine 53 <b>I</b> 126.90	xenon 54 <b>Xe</b> 131.29	caesium 55 <b>Cs</b> 132.91	barium 56 <b>Ba</b> 137.33																																									

\* Lanthanide series

\*\* Actinide series

lanthanum 57 <b>La</b> 138.91	cerium 58 <b>Ce</b> 140.12	praseodymium 59 <b>Pr</b> 140.91	neodymium 60 <b>Nd</b> 144.24	promethium 61 <b>Pm</b> [145]	samarium 62 <b>Sm</b> 150.36	europium 63 <b>Eu</b> 151.96	gadolinium 64 <b>Gd</b> 157.25	terbium 65 <b>Tb</b> 158.93	dysprosium 66 <b>Dy</b> 162.50	holmium 67 <b>Ho</b> 164.93	erbium 68 <b>Er</b> 167.26	thulium 69 <b>Tm</b> 168.93	ytterbium 70 <b>Yb</b> 173.04	actinium 89 <b>Ac</b> 227	thorium 90 <b>Th</b> 232.04	protactinium 91 <b>Pa</b> 231.04	uranium 92 <b>U</b> 238.03	neptunium 93 <b>Np</b> [237]	plutonium 94 <b>Pu</b> [244]	americium 95 <b>Am</b> [243]	curium 96 <b>Cm</b> [247]	berkelium 97 <b>Bk</b> [247]	californium 98 <b>Cf</b> [251]	einsteinium 99 <b>Es</b> [252]	fermium 100 <b>Fm</b> [257]	mendelevium 101 <b>Md</b> [289]	nobelium 102 <b>No</b> [289]
--	-------------------------------------	---	--	--	---------------------------------------	---------------------------------------	---	--------------------------------------	---	--------------------------------------	-------------------------------------	--------------------------------------	--	------------------------------------	--------------------------------------	---	-------------------------------------	---------------------------------------	---------------------------------------	---------------------------------------	------------------------------------	---------------------------------------	---	---	--------------------------------------	--	---------------------------------------