

Name: _____ Date: _____ Period: _____

NOVA: Hunting the Elements

Part 1: Basic Chemistry

Periodic Table of Elements

Use the periodic table below to help you answer some questions covered in the documentary.

1 H 1.00794																		2 He 4.002602																			
3 Li 6.941		4 Be 9.012182														5 B 10.811		6 C 12.011		7 N 14.006434		8 O 15.999		9 F 18.9984032		10 Ne 20.1797											
11 Na 22.98976928		12 Mg 24.304														13 Al 26.9815386		14 Si 28.08558		15 P 30.973762		16 S 32.06		17 Cl 35.453		18 Ar 39.9623831											
19 K 39.0983		20 Ca 40.078		21 Sc 44.955912		22 Ti 47.88		23 V 50.9415		24 Cr 51.9961		25 Mn 54.938045		26 Fe 55.845		27 Co 58.933195		28 Ni 58.6934		29 Cu 63.546		30 Zn 65.38		31 Ga 69.723		32 Ge 72.64		33 As 74.9216		34 Se 78.96		35 Br 79.904		36 Kr 83.80			
37 Rb 85.4678		38 Sr 87.62		39 Y 88.90584		40 Zr 91.224		41 Nb 92.90638		42 Mo 95.94		43 Tc 98		44 Ru 101.07		45 Rh 102.9055		46 Pd 106.9051		47 Ag 107.8682		48 Cd 112.411		49 In 114.818		50 Sn 118.710		51 Sb 121.757		52 Te 127.6		53 I 126.905		54 Xe 131.29			
55 Cs 132.90545196		56 Ba 137.327		57-70 *		71 Lu 174.967		72 Hf 178.49		73 Ta 180.94788		74 W 183.84		75 Re 186.207		76 Os 190.23		77 Ir 192.222		78 Pt 195.084		79 Au 196.966569		80 Hg 200.59		81 Tl 204.3833		82 Pb 207.2		83 Bi 208.9804		84 Po [209]		85 At [210]		86 Rn [222]	
87 Fr [223]		88 Ra [226]		89-102 *-*		103 Lr [260]		104 Rf [261]		105 Db [262]		106 Sg [266]		107 Bh [264]		108 Hs [277]		109 Mt [268]		110 Uun [289]		111 Uuu [288]		112 Uub [285]		113 Uut [284]		114 Uuq [289]									

* Lanthanide series

57 La 138.90547	58 Ce 140.12	59 Pr 140.90766	60 Nd 144.242	61 Pm [145]	62 Sm 150.36	63 Eu 151.964	64 Gd 157.25	65 Tb 158.925	66 Dy 162.500	67 Ho 164.93032	68 Er 167.259	69 Tm 168.93032	70 Yb 173.054
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** Actinide series

89 Ac [227]	90 Th 232.0377	91 Pa 231.03688	92 U 238.02891	93 Np [237]	94 Pu [244]	95 Am [243]	96 Cm [247]	97 Bk [247]	98 Cf [251]	99 Es [252]	100 Fm [257]	101 Md [258]	102 No [259]
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Gold - Au

- Write the number of subatomic particles in gold:
 - Protons: **79**
 - Neutrons: **118**
 - Electrons: **79**
- Give one property of gold.
shiny, malleable (soft), high density, electrically conductive
- How much gold is in one ton of the mined rock?
1 ounce

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