

SECTION 1

Reinforcement

Radioactivity

Directions: Use the following section of the periodic table to complete the following.

55 Cs Cesium 132.91	56 Ba Barium 137.33	57 to 71	72 Hf Hafnium 178.49	73 Ta Tantalum 180.95	74 W Tungsten 183.85	75 Re Rhenium 186.207	76 Os Osmium 190.2	77 Ir Iridium 192.22	78 Pt Platinum 195.08	79 Au Gold 196.967	80 Hg Mercury 200.59	81 Tl Thallium 204.383	82 Pb Lead 207.2	83 Bi Bismuth 208.98	84 Po Polonium (209)	85 At Astatine (210)	86 Rn Radon (222)
87 Fr Francium (223)	88 Ra Radium 226.025	89 to 103	104 Unq Unniquadium (261)	105 Unp Unnipentium (262)	106 Unh Unnihexium (263)	107 Uns Unnisepium (264)	108 Uno Unnioctium (265)	109 Uue Unniennium (266)	110 Uun	111 Uuu	112 Uub						
57 La Lanthanum 1.00794	58 Ce Cerium 104.12	59 Pr Praseodymium 140.908	60 Nd Neodymium (145)	61 Pm Promethium (145)	62 Sm Samarium 150.36	63 Eu Europium 151.96	64 Gd Gadolinium 157.25	65 Tb Terbium 158.925	66 Dy Dysprosium 162.50	67 Ho Holmium 164.93	68 Er Erbium 167.26	69 Tm Thulium 168.934	70 Yb Ytterbium 173.04	71 Lu Lutetium 174.967			
89 Ac Actinium 227.028	90 Th Thorium 232.038	91 Pa Protactinium 231.036	92 U Uranium 238.029	93 Np Neptunium 237.048	94 Pu Plutonium (244)	95 Am Americium (243)	96 Cm Curium (247)	97 Bk Berkelium (247)	98 Cf Californium (251)	99 Es Einsteinium (252)	100 Fm Fermium (257)	101 Md Mendelevium (258)	102 No Nobelium (259)	103 Lr Lawrencium (260)			

- Use a pencil to lightly shade in the boxes of the radioactive elements.
- Draw an X through the boxes that represent synthetic elements.
- How many of the radioactive elements are found in nature?

- How many radioactive elements are made only in the laboratory?

- What statement can you make about the relationship between atomic numbers and radioactivity?

Directions: The atomic number of uranium is 92. The most stable isotope of uranium is uranium-238. The radioactive isotope of uranium is uranium-235. In the spaces provided, write the symbols for the nucleus of each isotope of uranium.

Uranium-238	Uranium-235
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- How many neutrons does uranium-238 contain?

- How many neutrons does uranium-235 contain?
