

Name _____

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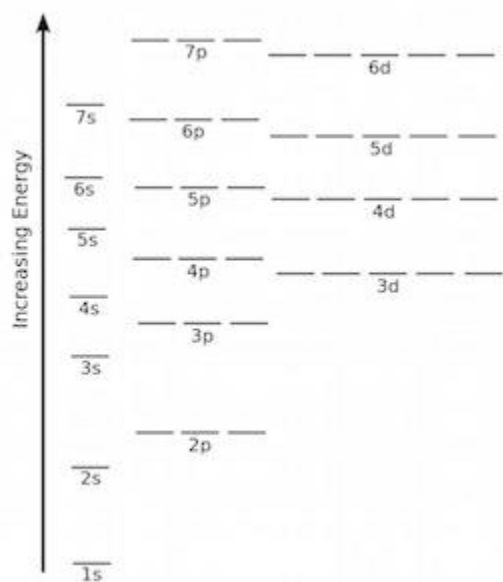
Section _____

"You got this." - Elise McCarren

This exam contains 17 questions including 15 multiple choice questions and 2 multi-part fill in the blank or checkbox questions. Be sure to select or enter an answer for each question. You will receive your grade after the entire class has taken the exam and all questions have been graded.

1-15	(30 pts.)	_____
16	(15 pts.)	_____
17	(15 pts.)	_____
Total	(60 pts)	_____

Useful information:



1A		2A										3A										4A										5A										6A										7A										8A																																																																																																																			
1	¹ H Hydrogen 1.008	2	³ Li Lithium 6.941	3	¹¹ Na Sodium 22.99	4	⁴ Be Beryllium 9.012	5	³⁷ Rb Rubidium 85.47	6	⁵⁵ Cs Cesium 132.90	7	⁸⁷ Fr Francium (223)	8	¹⁹ K Potassium 39.10	9	²⁰ Ca Calcium 40.08	10	³⁹ Y Yttrium 88.91	11	⁴⁰ Zr Zirconium 91.22	12	²² Ti Titanium 47.88	13	²³ V Vanadium 50.94	14	⁴¹ Nb Niobium 92.91	15	⁴² Mo Molybdenum 95.94	16	⁴³ Tc Technetium (98)	17	⁷⁴ W Tungsten 183.9	18	⁷³ Ta Tantalum 180.9	19	⁷² Hf Hafnium 178.5	20	⁷¹ Lu Lanthanum 175.07	21	⁷⁰ Yb Ytterbium 173.05	22	⁶⁹ Tm Thulium 168.93	23	⁶⁸ Er Erbium 167.26	24	⁶⁷ Ho Holmium 164.93	25	⁶⁶ Dy Dysprosium 162.50	26	⁶⁵ Sm Samarium 150.36	27	⁶⁴ Gd Gadolinium 157.25	28	⁶³ Eu Europium 151.96	29	⁶² Sm Samarium 150.36	30	⁶¹ Pm Promethium (145)	31	⁶⁰ Nd Neodymium 144.24	32	⁵⁹ Pr Praseodymium 140.91	33	⁵⁸ Ce Cerium 140.12	34	⁵⁷ La Lanthanum 138.91	35	⁵⁶ Ba Barium 137.33	36	⁵⁵ Cs Cesium 132.91	37	⁵⁴ Xe Xenon 131.3	38	⁵³ I Iodine 126.9	39	⁵² Te Tellurium 127.6	40	⁵¹ Sb Antimony 121.8	41	⁵⁰ Sn Tin 118.7	42	⁴⁹ In Indium 114.8	43	⁴⁸ Cd Cadmium 112.4	44	⁴⁷ Ag Silver 107.9	45	⁴⁶ Pd Palladium 106.4	46	⁴⁵ Rh Rhodium 102.9	47	⁴⁴ Ru Ruthenium 101.1	48	⁴³ Tc Technetium (98)	49	⁴² Mo Molybdenum 95.94	50	⁴¹ Nb Niobium 92.91	51	⁴⁰ Zr Zirconium 91.22	52	³⁹ Y Yttrium 88.91	53	³⁸ Sr Strontium 87.62	54	³⁷ Rb Rubidium 85.47	55	³⁶ Kr Krypton 83.80	56	³⁵ Br Bromine 79.90	57	³⁴ Se Selenium 78.96	58	³³ As Arsenic 74.92	59	³² Ge Germanium 72.59	60	³¹ Ga Gallium 69.72	61	³⁰ Zn Zinc 65.38	62	²⁹ Cu Copper 63.55	63	²⁸ Ni Nickel 58.69	64	²⁷ Co Cobalt 58.93	65	²⁶ Fe Iron 55.85	66	²⁵ Mn Manganese 54.94	67	²⁴ Cr Chromium 52.00	68	²³ V Vanadium 50.94	69	²² Ti Titanium 47.88	70	²¹ Sc Scandium 44.96	71	²⁰ Ca Calcium 40.08	72	¹⁹ K Potassium 39.10	73	¹⁸ Ar Argon 39.95	74	¹⁷ Cl Chlorine 35.45	75	¹⁶ S Sulfur 32.07	76	¹⁵ P Phosphorus 30.97	77	¹⁴ Si Silicon 28.09	78	¹³ Al Aluminum 26.98	79	¹² Mg Magnesium 24.31	80	¹¹ Na Sodium 22.99	81	¹⁰ Ne Neon 20.18	82	⁹ F Fluorine 19.00	83	⁸ O Oxygen 16.00	84	⁷ N Nitrogen 14.01	85	⁶ C Carbon 12.01	86	⁵ B Boron 10.81	87	⁴ He Helium 4.003	88	³ Li Lithium 6.941	89	² H Hydrogen 1.008

Lanthanides

Actinides