

THE PERIODIC TABLE OF ELEMENTS

On the accompanying Periodic Table of Elements, do the following:

- 1) Number the groups and periods;
- 2) Label the halogens, alkali metals, transition metals, alkaline metals, noble gases, and non-metals groups;
- 3) Draw in the stair-step line that divides the metals from the non-metals;
- 4) Draw a box around the element that is the exception to the metals/non-metals rule;
- 5) Label the Actinide series and Lanthanide series of elements;
- 6) Using the element Beryllium, label the element's atomic mass, symbol, name, and atomic number;
- 7) (optional) Use colored pencil to shade the following groups and periods: transition metals, Lanthanide and Actinide series, alkali metals, non-metals, other metals, alkaline metals, halogens, and noble gases.

Periodic Table credits:

Some information provided by Dr. Brent May, Widener University, Chester, Pennsylvania
1995 IUPAC masses and Approved Names from <http://www.chem.qmw.ac.uk/iupac/AtWt/>
masses for 107-111 from C&EN, March 13, 1995, p. 35
112 from <http://www.gsi.de/z112e.html>

NAME: _____

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H	Hydrogen 1.00794
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He	Helium 4.003
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Li	B	C	N	O	F	Ne
Lithium 6.941	Boron 9.012182	Carbon 12.0107	Nitrogen 14.00674	Oxygen 15.9994	Fluorine 18.9984032	Neon 20.1797
Na	Mg	Al	Si	P	S	Cl
Sodium 22.989770	Magnesium 24.3050	Aluminum 26.981538	Silicon 28.0855	Phosphorus 30.973761	Sulfur 32.066	Chlorine 35.4527
K	Ca	Sc	Ti	V	Cr	Mn
Potassium 39.0933	Calcium 40.078	Scandium 44.95910	Titanium 47.867	Vanadium 50.9415	Chromium 51.9961	Manganese 54.938049
Rb	Sr	Y	Zr	Nb	Mo	Tc
Rubidium 83.4678	Strontrium 87.62	Yttrium 88.90585	Zirconium 91.2224	Niobium 92.90638	Molybdenum 95.94	Technetium (98)
Cs	Ba	La	Hf	Ta	Ru	Rh
Cesium 132.9045	Barium 137.327	Lanthanum 138.9055	Hafnium 178.49	Tantalum 180.9479	Ruthenium 101.07	Rhodium 102.90550
Fr	Ra	Ac	Rf	Db	Ag	Cd
Francium (223)	Radium (226)	Actinium (227)	Rutherfordium (261)	Seaborgium (263)	Silver 106.42	In
			Dubnium (262)	Hassium (265)	Zinc 65.39	Ga
				Metatellurium (266)	Gallium 69.723	Ge
					Germanium 72.61	As
					Arsenic 74.92160	Se
					Selenium 78.96	Br
					Bromine 79.904	Kr
						Xe