

Chemistry: Periodic Table Unit Study Guide

Name: _____ Date: _____
Periodic Table Unit Study Guide

Basic Structure and Organization of the Periodic Table
 1. Label each of the following groups on the periodic table:
 • Halogens
 • Alkali Metals
 • Noble Gases
 • Transition Metals
 • Lanthanides
 • Actinides

2. Color & Label the following families on the periodic table: Alkali Metals, Alkaline Earth Metals, Transition Metals, Halogens and Noble Gases. For these families, color each element's respective characteristic and the number of protons/electrons.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
H	He	Li	Be	B	C	N	O	F	Ne	Na	Mg	Al	Si	P	S	Cl	Ar
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Cobalt	Nickel	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
Fr	Ra	Ac	Rf	Mn	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr			

Alkali metals

Alkaline earth metals

Transition metals

Halogens

Noble gases

3. Mark the periodic table above in order of increasing atomic mass (from left to right).

4. Fill in the following chart:

Name:	Astatine	Ca ²⁺	1s ² 2s ² 2p ⁶ 3s ²	
Number of Electrons (Neutral):				
Group, Period, & Block:				
Atomic Number (Z):				

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D Kirk

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red-to-white gradient semi-circle overlapping the right side of the bar.

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