

Ions and Ionic Compounds

(How are ionic compounds formed?)

Model 1: Common charges (by group) on elements when in ionic compounds.

Charge		← variable charge →																			
Grp #																					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18				
1																			2		
H																			He		
3	4											5	6	7	8	9	10				
Li	Be											B	C	N	O	F	Ne				
11	12											13	14	15	16	17	18				
Na	Mg											Al	Si	P	S	Cl	Ar				
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr				
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54				
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe				
55	56	57	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86				
Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn				
87	88	89	104	105	106	107	108	109	110	111	112		114		116						
Fr	Ra	Ac	Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn		Fl		Lv						

A cation has a positive charge.

An anion has a negative charge.

Critical Thinking Questions:

- Recall the shell model of the atom.
 - How many electrons fill the first shell? _____
 - How many electrons fill the second shell? _____
- How many valence electrons are found in atoms in
 - group 1? _____
 - group 13? _____
 - group 16? _____
- When atoms form ionic compounds, they often fill their outer valence shell (**octet rule**) by either gaining or losing 1, 2, or 3 electrons. Based on your answer to CTQ 2, indicate how many electrons these atoms would either gain or lose to achieve an octet.
 - group 1? _____
 - group 13? _____
 - group 16? _____
- What would be the resulting charge on the ions created in CTQ 3 when electrons are gained or lost?
 - group 1? _____
 - group 13? _____
 - group 16? _____
- Based on your answer to CTQ 4, do metals typically form **anions** or **cations** (circle one)?
- Work with your team and write charges in the empty boxes above each group (skip the transition metals, groups 3–12) at the top of the periodic table in Model 1.
- Do nonmetals typically form **anions** or **cations** (circle one)?

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Jiyuan Zhang



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Chemistry Richard S. Moog, John J. Farrell, 2017-06-26 In the newly updated 7th Edition Chemistry A Guided Inquiry continues to follow the underlying principles developed by years of extensive research on how students learn and draws on testing by those using the POGIL methodology This text follows the principles of inquiry based learning and correspondingly emphasizes underlying chemistry concepts and the reasoning behind them This text provides an approach that follows modern cognitive learning principles by having students learn how to create knowledge based on experimental data and how to test that knowledge

General, Organic, and Biological Chemistry Michael P. Garoutte, 2014-02-24 Classroom activities to support a General Organic and Biological Chemistry text Students can follow a guided inquiry approach as they learn chemistry in the classroom General Organic and Biological Chemistry A Guided Inquiry serves as an accompaniment to a GOB Chemistry text It can suit the one or two semester course This supplemental text supports Process Oriented Guided Inquiry Learning POGIL which is a student focused group learning philosophy of instruction The materials offer ways to promote a student centered science classroom with activities The goal is for students to gain a greater understanding of chemistry through exploration

Introductory Chemistry Michael P. Garoutte, Ashley B. Mahoney, 2015-08-10 The ChemActivities found in Introductory Chemistry A Guided Inquiry use the classroom guided inquiry approach and provide an excellent accompaniment to any one semester Introductory text Designed to support Process Oriented Guided Inquiry Learning POGIL these materials provide a variety of ways to promote a student focused active classroom that range from cooperative learning to active student participation in a more traditional setting

Merrill Chemistry Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998

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Chemical Abstracts, 1907 Prentice Hall Chemistry, 2000 **Notes Chem 11** Philip Oles, **Notes Chem 11** Philip Oles, *Notes Chem 11* Philip Oles, **Notes Chem 11** Philip Oles, **Chemistry: a Guided Inquiry 3** Jim

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