Dot Notation and Ion Formation Organizer

<u>Important vocabi</u>	<u>ulary:</u>				
Valence electror	n – An electron in the energ	gy level. An electro	n available for	<u> </u>	
Octet – A group	of valence electrons				
Noble gas config	guration – Valence electrons equal to that of a	gas. For	most elements, a Nob	le gas configuration	
is an	. For a few small elements (H, Li, Be), it is two	electrons, the config	guration of	$(1s^2)$	
Cation – a	charged ion formed when a metal	metal electrons			
Anion – a	charged ion formed when a nonmet	tal	electrons		
Metals	electrons, forming	Nonmetals	electrons, form	ning	

	Group 1	Group 2	Group 13	Group 14	Group 15	Group 16	Group 17	Group 18
Element	Sodium	Magnesium	Aluminum	Silicon	Phosphorus	Sulfur	Chlorine	Argon
	Na	Mg	Al	Si	P	S	Cl	Ar
Valence electrons								
Element dot notation								
Electrons lost or gained	Lose e	Lose e	Losee	form to bonds	Gain e	Gain e	Gain e	Don't gain, lose or share electrons
Ion formed								