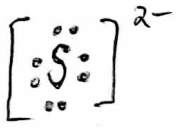
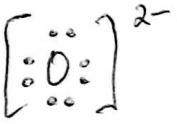
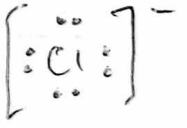
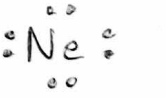
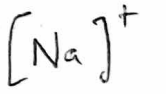
Electron Dot Diagrams

Practice drawing electron dot diagrams for different elements.

Element	Symbol	Family Name	Atomic Number	# of Protons	# of Electrons	Period Number (#of shells)	Group # (#of valence e⁻)	Electron Dot Diagram
carbon	C	Carbon family	6	6	6	2	4	
aluminum	Al	Boron family	13	13	13	3	3	
silicon	Si	Carbon family	14	14	14	3	4	
calcium	Ca	Alkaline Earth Metals	20	20	20	4	2	
lithium	Li	Alkali Metals	3	3	3	2	1	
phosphorus	P	Pnictogens	15	15	15	3	5	
magnesium	Mg	Alkaline Earth Metals	12	12	12	3	2	

Practice drawing electron dot diagrams for different **IONS**.

Element	Symbol	# of Protons	# of Electrons	Charge on Ion	Nearest Noble Gas	Electron Dot Diagram
sulfide	S^{2-}	16	18	2-	argon	
oxide	O^{2-}	8	10	2-	neon	
potassium	K^{+}	19	18	+	argon	
chloride	Cl^{-}	17	18	-	argon	
neon	Ne	10	10	0	neon	
sodium	Na^{+}	11	10	+	neon	
flouride	F^{-}	9	10	-	neon