Using Molecular Model Kits

To get a 'hand-on' idea of how compounds and molecules look in 3D we can use molecular model kits. Different elements are represented by different colour balls. Each of the sticks in the kit represent a bond.

Black = carbon Blue = nitrogen Yellow/Green = alkali metals and halogens Red= oxygen, sulfur and alkaline earth metals

Use you model kit to make the following molecule and in the space provided draw your molecule. Also, identify each molecule as having an ionic or covalent bond.

H ₂ O	Be ₂ O ₂	NaCl
Bond:	Bond:	Bond:
NH ₃	O ₂	K₂S
Bond:	Bond:	Bond:
MgF ₂	CH₄	CO ₂
Bond:	Bond:	Bond:

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Extra Ions Practice

Fill in the following chart predicting the charge of each ion

Element	# of valence electrons	Metal or a non-metal	Lose or gain electrons?	Symbol with it's charge
Li	1	metal	lose	Li1+
Ν				
Ar				
F				
К				
Mg				
0				
Br				
Са				
Не				

Fill in the following blank statements based on your knowledge of ions.

Elements in group 1 have a _____ charge.

Elements in group 2 have a _____ charge.

Elements in group 16 have a _____ charge.

Elements in group 17 have a _____ charge.

Elements in group 18 have a _____ charge.