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Compounds and Bonding worksheet

Tell whether each compound is ionic or covalently bonded:

NaBr

CF₄

CO₂

Fe₂S₃

I₂

Li₂Se

NH₃

CaO

AlCl₃

Ba₃N₂

SiBr₄

CrP

RbF

AuI

TeF₂

As₂C₃

Give the ion for each element.

Ca

F

N

I

Be

P

S

Al

Fr

Br

Ba

As

Put the two elements together to form an ionic compound.

K and Cl

Na and P

Sr and O

Be and I

Li and Si

Al and S

Ca and P

Ba and F

Cs and N

Ra and C

Tell me which chemicals below are atoms, molecules, or compounds. More than one name may apply to each.

Ne	
O ₂	
KBr	
H ₃ PO ₄	
C ₄	
Kr	

How many atoms of each element are in the compounds or molecules below.

GeS ₂	Ge =	S =	
Cl ₂	Cl =		
Rb ₂ CO ₃	Rb =	C =	O =
(VP ₂) ₃ F ₂	V =	P =	F =
(NH ₄) ₃ As	N =	H =	As =
Zn ₃ (PO ₄) ₂	Zn =	P =	O =

Calculate the molar mass of these compounds below. Rounding is okay.

XeF ₄	
Al ₂ S ₃	
Mg(OH) ₂	
PbSe ₂	
Ca ₃ (SO ₃) ₂	
B(IO ₃) ₃	