



Name:

Grade:

Worksheet about 'Molecule, Ions and Pure elements'

Question 1: Classify the following molecules into the following

H₂, FeO, CO₂, CH₄, O₂, Ne, NaCl, Au, He, H₂O, MgO, NH₃, Cl₂, C₁₂H₂₂O₁₁, Mg, HCO³⁻, SO₄²⁻, NO₃⁻

Elements		Compounds	
Molecular elements	Atomic elements	Molecular compounds	Ionic compounds

Question 2: Complete the table below with the number of each kind of atom found in different molecules.

Molecule	Number of hydrogen atoms	Number of oxygen atoms	Number of carbon atoms	Number of Nitrogen atoms
Water H ₂ O				



Carbon dioxide CO ₂				
Nitrogen gas N ₂				
Methane CH ₄				
Ammonia NH ₃				

Question 3: The following label is found on a bottle of mineral water;



VSEBINA (mg/l)

Ca ²⁺	70,0
Mg ²⁺	37,0
K ⁺	1,2
Na ⁺	2,0
Fe ²⁺	< 0,01
Cl ⁻	4,9
SO ₄ ²⁻	13,8
F ⁻	0,071
HCO ₃ ⁻	378
pH	7,50

Classify them in the followings:

Developmental Action Without Borders

NABA'A

Reg: 104\AD



جمعية عمل تنموي بلا حدود

نبا

علم وخبر: 104/أد

- a) Cations
- b) Anions
- c) Monoatomic ions
- d) Polyatomic ions