

COUNTING ATOMS

WORKSHEET

How do you accurately count atoms in chemical compounds, and why is this skill essential for students studying chemistry?

Calculate the total number of atoms in the following scenarios:

1) 3 molecules of H_2SO_4

Total atoms: ____

2) 2 molecules of $\text{Al}_2(\text{SO}_4)_3$

Total atoms: ____

Count the atoms in these compounds that include polyatomic ions.

1) $\text{Ca}(\text{OH})_2$

Calcium: ____

Oxygen: ____

Hydrogen: ____

2) NaNO_3

Sodium: ____

Nitrogen: ____

Oxygen: ____