# Dalton’s Atomic Model

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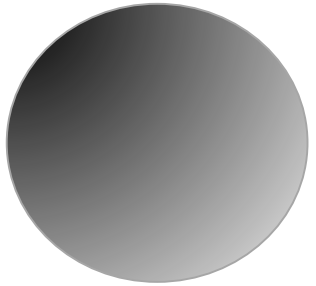
John Dalton (1766-1844)

All matter is made up of atoms



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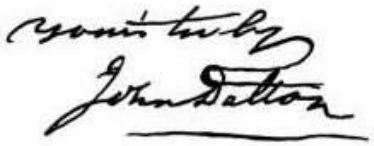

Atoms are indivisible

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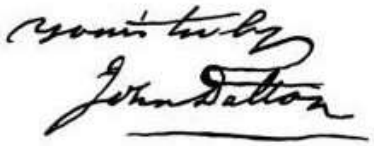

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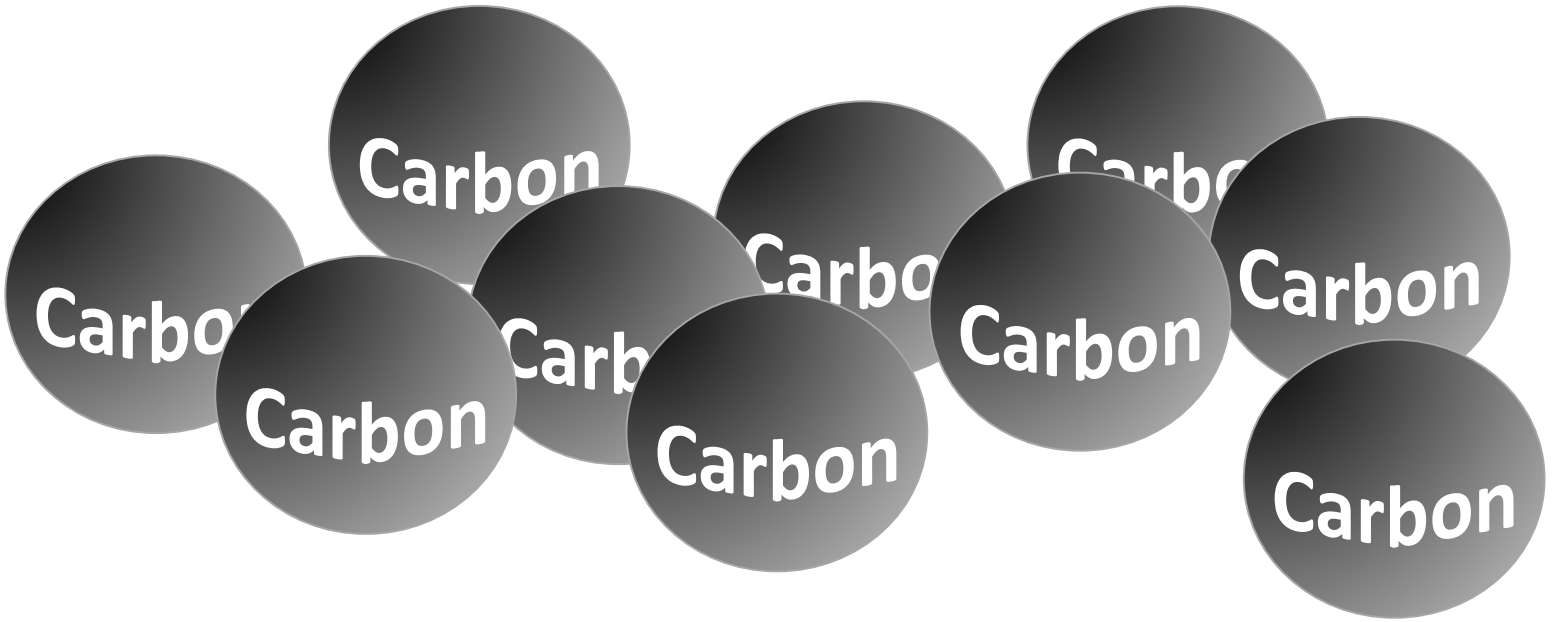
Atoms of the same element are identical



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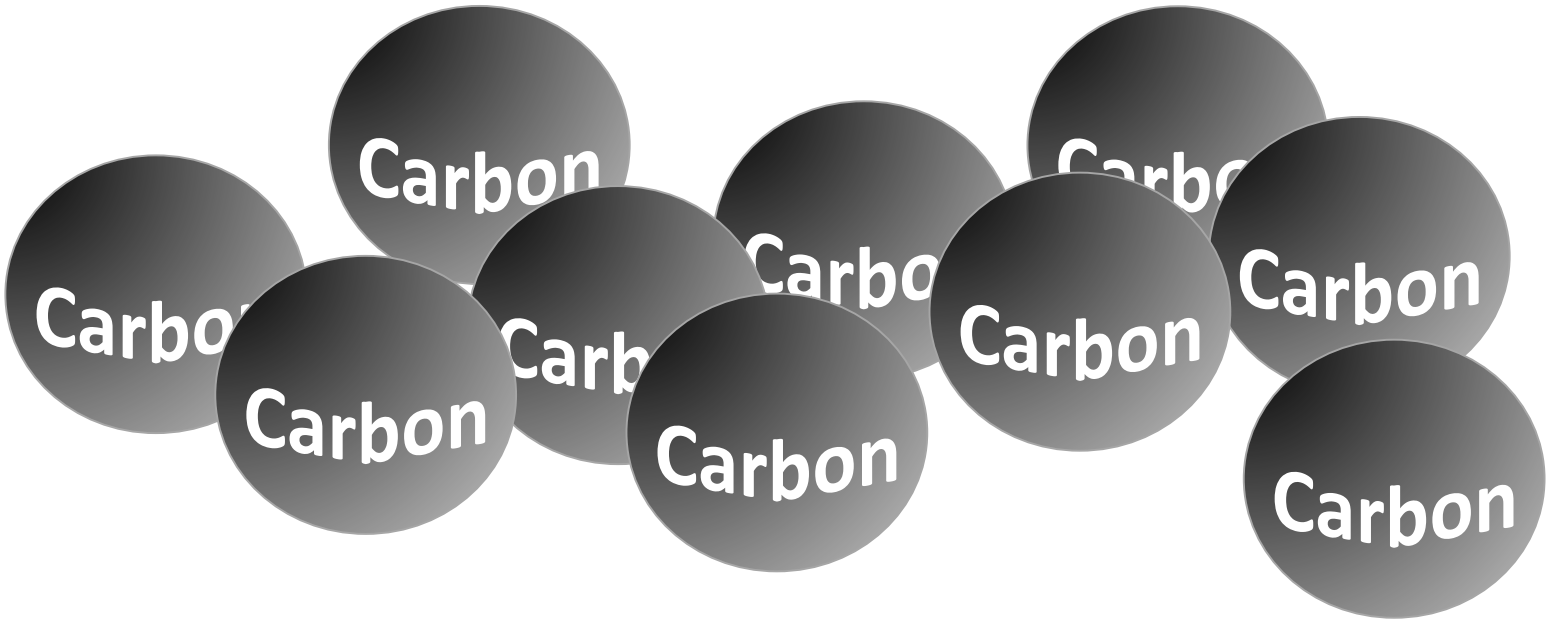

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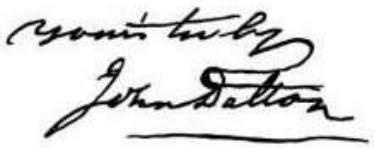

H

Atoms of different elements differ in size, mass, and other properties

Nitrogen

Carbon

Sulphur

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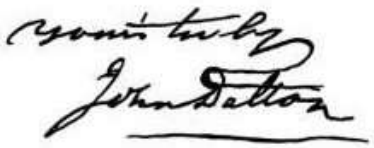

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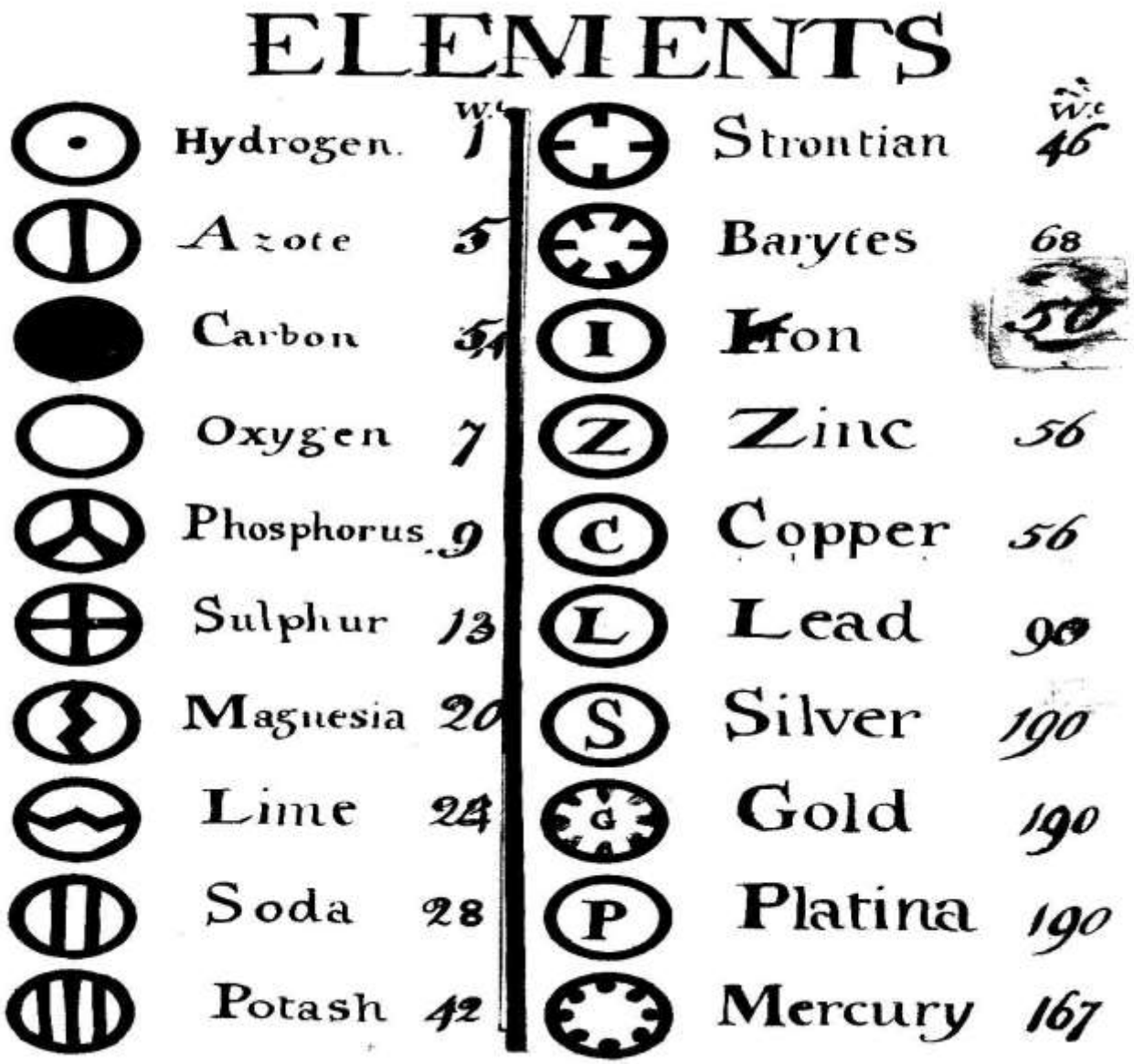

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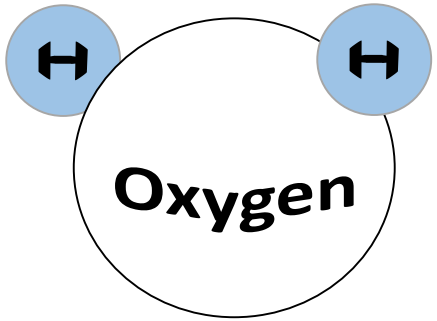
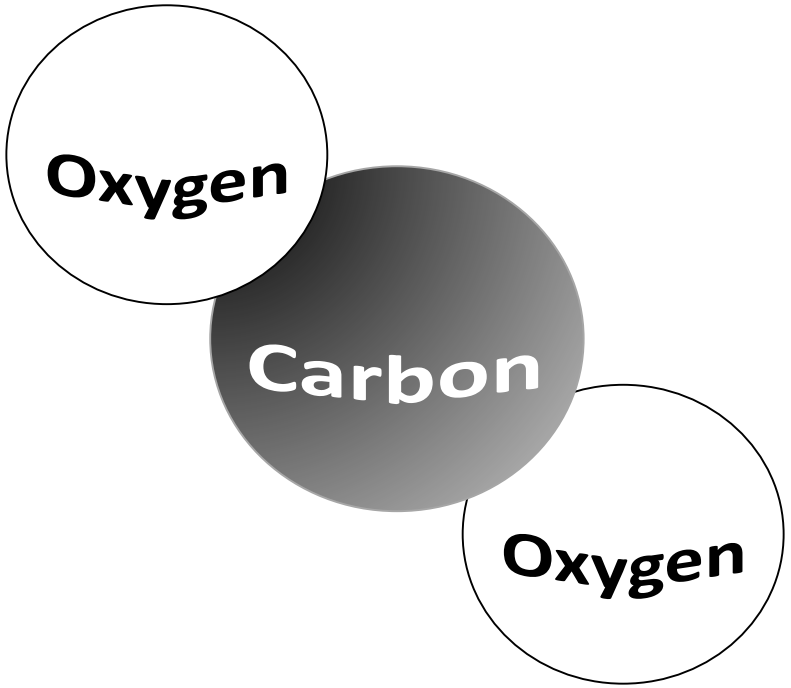
Atoms can combine to form compounds



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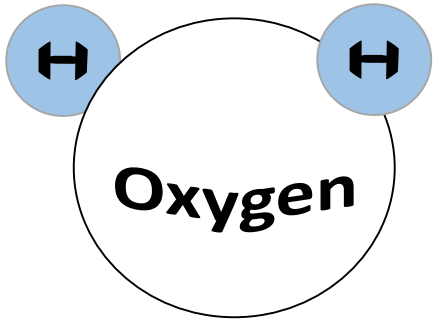
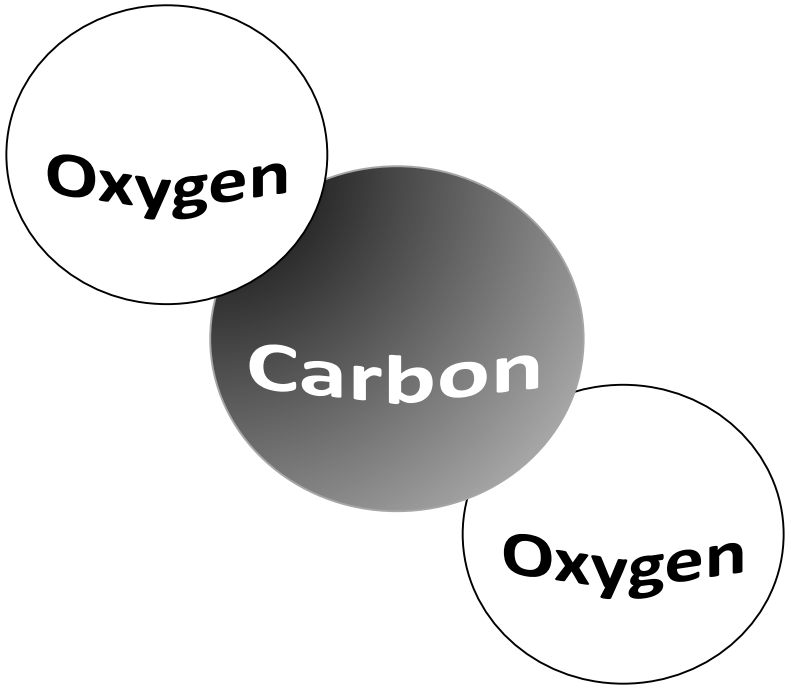


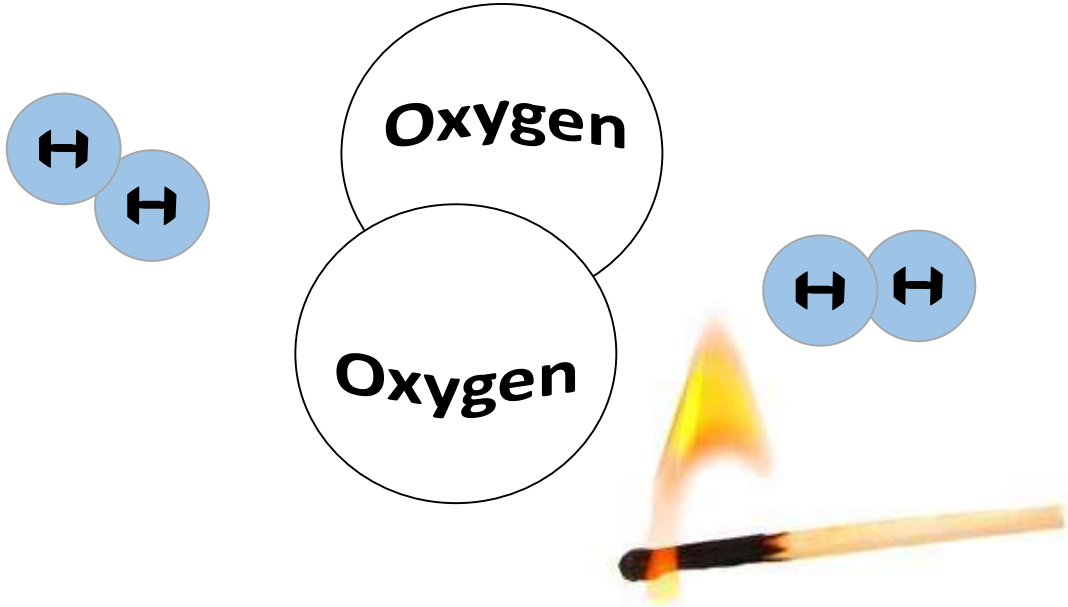



# Dalton's Atomic Model

John Dalton (1766-1844)

Atoms are neither created nor destroyed in a chemical reaction; they are merely rearranged

Hydrogen + Oxygen →



# Dalton's Atomic Model

Atoms are … d in a … ged

John Dalton

POP !

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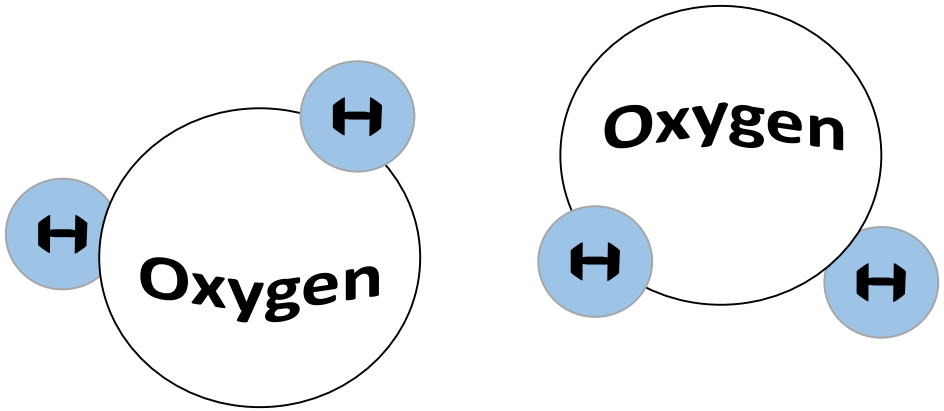
Atoms are neither created nor destroyed in a chemical reaction; they are merely rearranged

Hydrogen + Oxygen → **Water**



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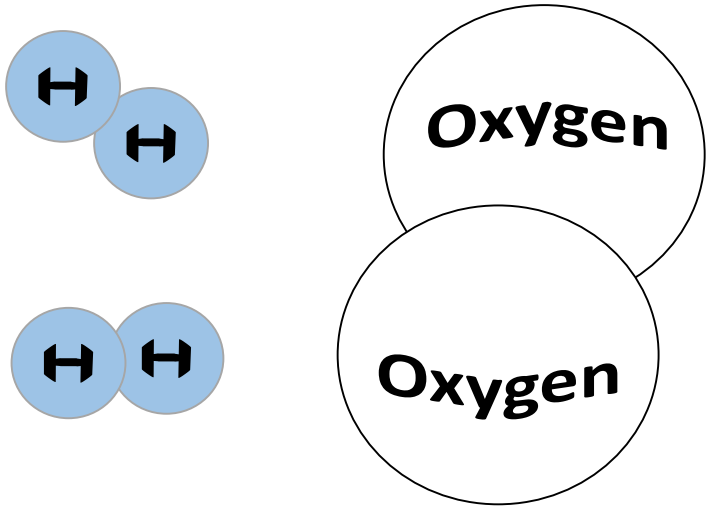
## Conservation of Matter

Reactants

Hydrogen + Oxygen




*(Atoms are merely rearranged)*

Product

**Water**