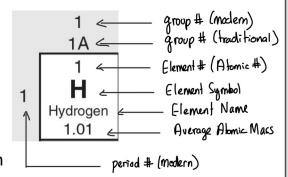
Atomic Elements

An **element** is the most basic form of an atom based on the number of protons (p⁺)

The number of p⁺ is also known as the **atomic number** of an atom

The **atomic number** is the number of protons (p⁺) and electrons (e⁻) in atom

The **element** is identified by **element symbol** (H), and **element name** (Hydrogen) as shown in the element



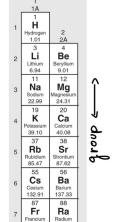
A **periodic square** from a table of elements (*Periodic Table*) showing all the element info

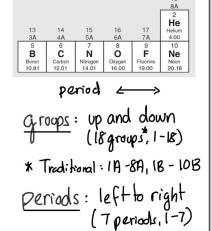
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Element Arrangement on Periodic Table

Groups are the up and down rows with elements based on the **number of valence electrons** (val. e⁻), and are numbered 1 – 18, or 1A – 8A and 1B – 10B

Periods are the left to right rows based on the number of **energy levels**, or the size of the atom, and are numbered 1 – 7.





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