





Table 2.2 Properties of the T	Three Key Subatomic Particl	les	$\frac{A}{2}X$ = The symbol of the atom or isotope	Atomic number (p ⁺)
ame(Symbol) Relative Absolute(C)*	Relative(amu) [†] Absolute(g)	Location in the Atom	X = Atomic symbol of the element	An atom of carbon -12
Proton (p ⁺) 1+ +1.60218x10 ⁻¹⁹	1.00727 1.67262x10 ⁻²⁴	Nucleus	A = mass number; A = Z + N	80 ⁻ 150
Neutron (n ⁰) 0 0	1.00866 1.67493x10 ⁻²⁴	Nucleus	Z = atomic number (the number of protons in the nuc N = number of neutrons in the nucleus	An atom of oxygen-16
Electron (e ⁻) 11.60218x10 ⁻¹⁹	0.00054858 9.10939x10 ⁻²⁸	Outside Nucleus	Isotope = atoms of an element with t number of protons, but a different r of neutrons	he same An atom of uranium-235
* The coulomb (C) is the SI un † The atomic mass unit (am	nit of charge. u) equals 1.66054x10 ^{.24} g.		See Laboratory Tools Figure	2.8 An atom of uranium-238





