

WS Atomic Number, Mass Number, and Isotopes

1. What is the atomic number of an atom?

Number of Protons

2. What is the mass number of an atom?

Protons + Neutrons

3. Which element has 16 protons? *sulfur*

4. How is the mass number of an atom calculated? *Protons + Neutrons*

5. Every neutral atom has the same number of Protons and Electrons.

6. How do you find how many neutrons in an atom if you know the mass number and atomic number?

Mass Number - Atomic Number

7. Which subatomic particles are in the nucleus?

Protons & Neutrons

8. A hydrogen atom with mass number 3 has how many protons and how many neutrons?

1 Proton 2 Neutrons

Complete the table using a Periodic Table.

Atomic Symbol	Mass Number	Atomic Number	# of Protons	# of Neutrons	# of Electrons	Name of Isotope
⁴⁰ ₁₉ K	40	19	19	21	19	Potassium-40
¹⁰⁸ ₄₇ Ag	108	47 47	47	61	47	Silver-108
⁵⁹ ₂₈ Ni	59	28	28	31	28	Nickel-59
¹²⁷ ₅₃ I	127	53	53	74	53	Iodine-127
¹⁴ ₆ C	14	6	6	8	6	carbon-14
⁴⁰ ₁₈ Ar	40	18	18	22	18	Argon-40
¹³⁷ ₅₅ Cs	137	55	55	82	55	Cesium-137
⁵⁶ ₂₆ Fe	56	26	26	30	26	Iron-56
⁶⁵ ₂₉ Cu	65	29	29	36	29	Copper-65
²⁰⁶ ₈₂ Pb	206	82	82	124	82	lead-206