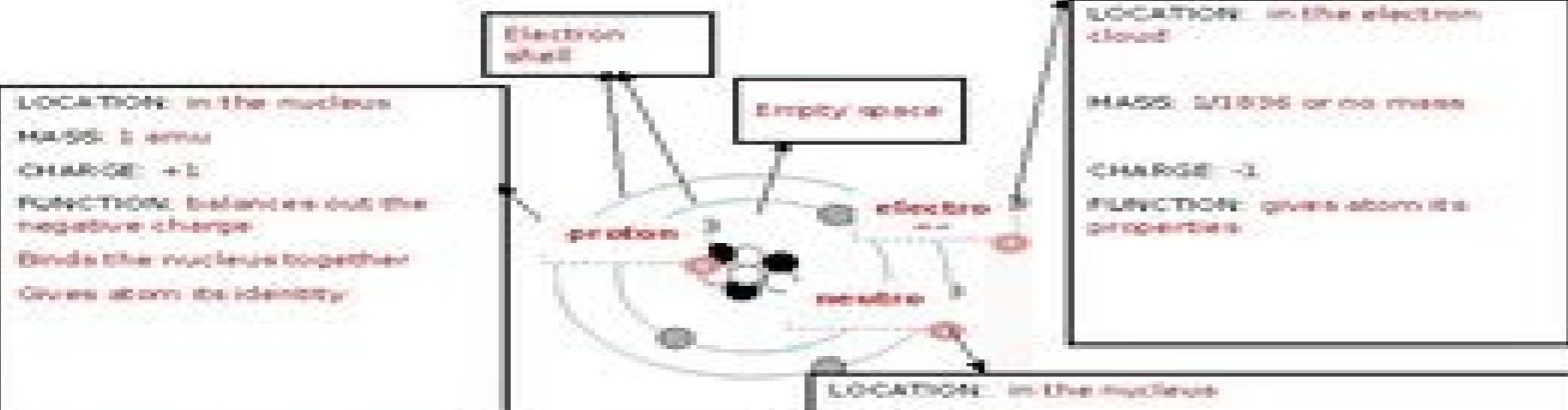


Name: _____

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GRAPHIC ORGANIZER - Atomic structure and Sub-atomic particles



LOCATION: in the nucleus
MASS: 1 amu
CHARGE: +1
FUNCTION: balances out the negative charge
 Binds the nucleus together
 Gives atom its identity

LOCATION: in the electron cloud
MASS: 1/1836 or no mass
CHARGE: -1
FUNCTION: gives atom its properties

Atomic number: the number of protons in an atom. Denoted by the symbol Z .
 Formula: $Z = \text{atomic number}$; $Z = \text{number of protons}$
Mass number: the number of protons plus the number of neutrons in the nucleus of the atom. Mass number is denoted by the letter A .
 Formula: $A = \text{number of protons} + \text{number of neutrons}$
Charge: how protons and electrons balance out in an atom.
 Formula: $\text{Net charge} = \text{protons} - \text{electrons}$

$$\text{Net charge} = p - e$$

ISOTOPES: Atoms of the same element with different mass number or different number of neutrons.



LOCATION: in the nucleus
MASS: 1 amu
CHARGE: no charge
FUNCTION: holds the atom together



Subatomic Particles Gizmo Answer Key

Sebastian Brünink

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Subatomic Particles Gizmo Answer Key:

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