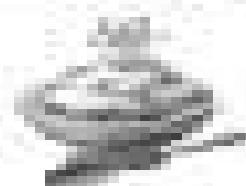


Atomic Probing Scales of the Atom

Name _____
Date _____



Purpose:

To determine the relative sizes of the atom and the nucleus and to determine the relative sizes of the electron and the proton.

Part I: Finding the Size of the Atom

1. The first step in finding the size of the atom is to determine the relative sizes of the electron and the proton. This is done by measuring the mass of the electron and the proton. The mass of the electron is 9.1×10^{-31} kg and the mass of the proton is 1.67×10^{-27} kg. The ratio of the mass of the electron to the mass of the proton is $1/1836$.

Conclusion: The mass of the electron is much smaller than the mass of the proton. This means that the electron is much lighter than the proton.

2. The next step is to determine the relative sizes of the electron and the proton. This is done by measuring the radius of the electron and the proton. The radius of the electron is 2.8×10^{-16} m and the radius of the proton is 1.0×10^{-15} m. The ratio of the radius of the electron to the radius of the proton is $1/36$.

Conclusion: The radius of the electron is much smaller than the radius of the proton. This means that the electron is much smaller than the proton. This is why the electron is considered to be a point particle.

3. The final step is to determine the relative sizes of the electron and the proton. This is done by measuring the volume of the electron and the proton. The volume of the electron is 2.2×10^{-47} m³ and the volume of the proton is 1.0×10^{-45} m³. The ratio of the volume of the electron to the volume of the proton is $1/45$.

Conclusion: The volume of the electron is much smaller than the volume of the proton. This means that the electron is much smaller than the proton.

4. The final step is to determine the relative sizes of the electron and the proton. This is done by measuring the density of the electron and the proton. The density of the electron is 9.1×10^{-31} kg/m³ and the density of the proton is 1.67×10^{-27} kg/m³. The ratio of the density of the electron to the density of the proton is $1/1836$.

Atomic Pudding Lesson 1key

Daniela Niemeyer

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.

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