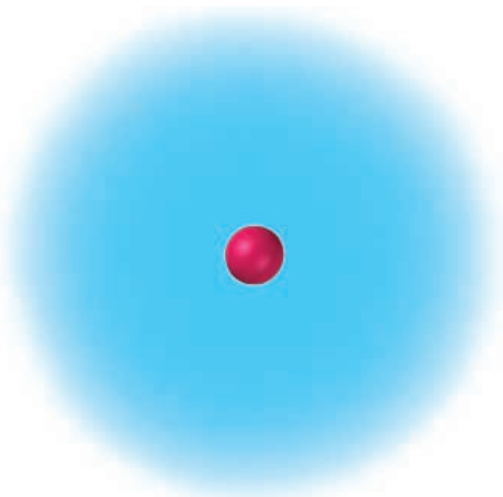


Atomic Number and Atomic Mass

Hydrogen-1, ${}^1_1\text{H}$

1 proton

1 electron

Atomic number 1

Mass number 1



Hydrogen-2, ${}^2_1\text{H}$

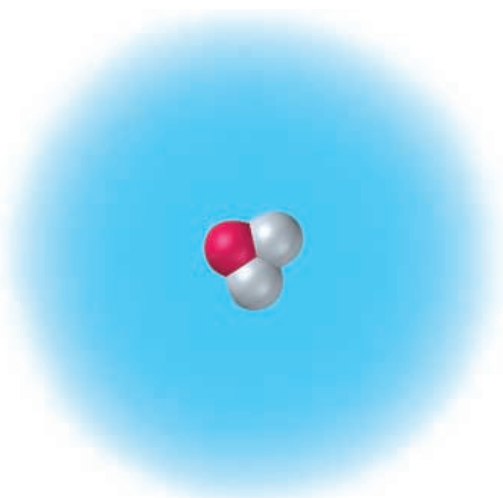
1 proton

1 neutron

1 electron

Atomic number 1

Mass number 2



Hydrogen-3, ${}^3_1\text{H}$

1 proton

2 neutrons

1 electron

Atomic number 1

Mass number 3

Transparency Worksheet

Atomic Number and Atomic Mass

1. How do hydrogen-1, hydrogen-2, and hydrogen-3 differ?

2. Why does hydrogen-3 have a greater atomic mass than hydrogen-1 does?

3. What determines an element's atomic number?

4. How is an element's atomic mass determined?

5. Can a single element have more than one atomic number? Explain your answer.
