

The Candy Lab – C₆H₁₂O₆

Purpose:

- To determine the:
- the number of carbon atoms
 - the number of hydrogen atoms
 - the number of oxygen atoms
 - the total number of atoms

in a candy, assuming that it is made up of only glucose (C₆H₁₂O₆).

Materials:

- Candy, balance

Procedure:

- Remove the wrapper of the candy.
- Mass the candy, record mass.

Data Processing:

Mass of candy (g)

Molar mass of glucose (g / mol)

Moles of candy (mol)

Number of molecules in the candy, (N)

Number of C- atoms in glucose, (candy)

Number of H- atoms in glucose, (candy)

Number of O- atoms in glucose, (candy)

Total number of atoms in glucose, (candy)

Calculations:

Conclusion: