Example: Balancing Chemical Equations

We want to know how much ethanol is produced by fermentation (for science)

The number of atoms has to be preserved on each side of the equation

$C_6H_{12}O_6 \rightarrow C_2H_5OH + CO_2$ Glucose Fthanol

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 Ethanol

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Balancing Chemical Equations

$$\alpha C_6 H_{12} O_6 \rightarrow \beta C_2 H_5 OH + \gamma CO_2$$
Glucose Ethanol