

Balancing chemical equations

ST

PAGES 108–112

Complete this Concept Review so you can keep a record of what you have learned.

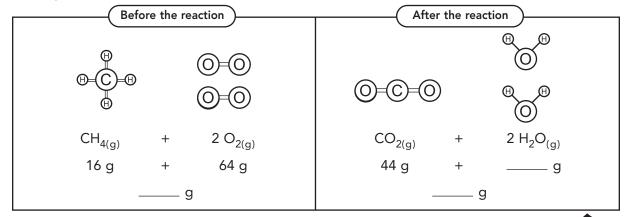
Definitions

A physical change alters
A chemical change alters
The law of conservation of mass states that
Balancing a chemical equation consists

Signs pointing to the occurrence of a chemical change

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Example of conservation of mass





Name: ______ Date: _____

Example of interpreting a chemical equation

Chemical equation	CH _{4(g)}	+	2 O _{2(g)}	\rightarrow	CO _{2(g)}	+	2 H ₂ O _(g)
Interpretation							

Total number of atoms of each element before and after the reaction

Bef	ore the chemical reaction	After the chemical reaction		
Reactants	Number of atoms	Product	Number of atoms	
N ₂ + 3 H ₂		2 NH ₃		

Rules to apply when balancing chemical equations

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