

Enthalpy Changes and Calorimetry Word Search

This puzzle reviews vocabulary from the Chemistry 30 energy unit, where students determine and interpret energy changes in chemical reactions and explain how those changes are communicated ([Topic](#), [Topic](#), [Topic](#)). Terms in this search connect to calorimetry data used to determine enthalpy changes ([Outcome](#)), the classification of reactions as exothermic or endothermic ([Outcome](#)), balanced equations that include energy changes ([Outcome](#)), ΔH , ΔH_{f} ([Outcome](#)), enthalpies of formation ([Outcome](#)), and activation energy on labelled energy diagrams ([Outcome](#)).

How to play

- Scan the grid horizontally, vertically, and diagonally, in both directions, to locate each term from the word list.
- Circle or highlight each word as you find it, then cross it off the list below the grid.
- Once every term is found, review its meaning: for a challenge, explain how each word applies to a calorimetry experiment or an enthalpy diagram.

Words to find

- ACTIVATION
- BALANCED
- CALORIMETRY
- COMBUSTION
- ENTHALPY
- EXOTHERMIC
- FORMATION
- NOTATION

Puzzle grid

U	K	N	R	A	J	Y	K	H	A	C	B	F
B	A	L	A	N	C	E	D	C	C	O	G	W
L	F	C	X	E	F	D	Q	O	V	X	Z	U
K	E	O	T	T	A	N	R	M	B	W	W	Z
G	X	B	R	I	U	O	H	B	B	E	U	W
Z	O	T	T	M	V	T	L	U	K	F	E	S
W	T	C	V	Q	A	A	G	S	G	I	N	L
S	H	Y	I	F	A	T	T	T	K	W	T	T
U	E	J	B	N	S	I	I	I	V	P	H	R
O	R	L	A	O	S	O	B	O	O	I	A	H
A	M	O	U	A	O	N	W	N	N	N	L	I
A	I	D	Y	R	Z	H	P	U	B	W	P	U
C	C	A	L	O	R	I	M	E	T	R	Y	T

Answer key

- **ACTIVATION**: row 2, column 2, diagonal
- **BALANCED**: row 2, column 1, across
- **CALORIMETRY**: row 13, column 2, across
- **COMBUSTION**: row 2, column 9, down
- **ENTHALPY**: row 6, column 12, down
- **EXOTHERMIC**: row 4, column 2, down
- **FORMATION**: row 3, column 2, diagonal
- **NOTATION**: row 4, column 7, down