

Enthalpy and Calorimetry Word Search

This puzzle reviews the vocabulary Chemistry 30 students need for Unit A: Thermochemical Changes. Students determine and interpret energy changes in chemical reactions ([Topic](#)), define enthalpy for a reaction ([Outcome](#), [Outcome](#)), and use $q = mc\Delta T$ to communicate energy changes ([Outcome](#)). Calorimetry experiments generate the temperature and mass data used to calculate molar enthalpy change ([Outcome](#), [Outcome](#)), applying $Q = mc\Delta T$ to the heat transfer ([Outcome](#), [Outcome](#)) and using that calorimetry data to determine enthalpy changes for exothermic and endothermic reactions ([Outcome](#)). Building and testing a calorimeter for precision, and measuring the heat released during combustion, are lab skills tied directly to this unit ([Resource](#), [Resource](#)).

How to play

- Scan the grid horizontally, vertically, and diagonally, in both directions, to locate each term.
- Circle or highlight each word as you find it, then cross it off the word list.
- Check your work against the answer key only after you have located every term.

Words to find

- CALORIMETER
- CALORIMETRY
- COMBUSTION
- ENTHALPY
- EXOTHERMIC
- NOTATION
- PRECISION
- TEMPERATURE

Puzzle grid

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

Answer key

- **CALORIMETER**: row 3, column 6, down
- **CALORIMETRY**: row 3, column 1, diagonal
- **COMBUSTION**: row 3, column 1, down
- **ENTHALPY**: row 6, column 11, down
- **EXOTHERMIC**: row 2, column 2, across
- **NOTATION**: row 5, column 4, down
- **PRECISION**: row 3, column 3, across
- **TEMPERATURE**: row 2, column 5, down