

Enthalpy Changes and Calorimetry Word Search

In Chemistry 30, you determine and interpret energy changes in chemical reactions ([Topic](#)). A core skill is using calorimetry data to find enthalpy changes ([Outcome](#)), which requires understanding how heat transfer relates to temperature change through the equation $Q = mc\Delta T$ ([Outcome](#)). You learn to define enthalpy and use ΔH to communicate energy changes ([Outcome](#), [Outcome](#)). This word search reinforces the vocabulary of thermochemical analysis: the equipment you use, the processes you measure, and the precision required for accurate results.

How to play

- Find and circle each word in the grid. Words may run horizontally, vertically, or diagonally in any direction (left to right, right to left, top to bottom, bottom to top).
- All eight words are hidden in the puzzle. Use the word list below to check off words as you find them.
- Mark your answers on the grid itself, or record them on a separate sheet with the row and column coordinates where each word begins.

Words to find

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

Puzzle grid

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

Answer key

- **CALORIMETER**: row 8, column 2, across
- **CALORIMETRY**: row 2, column 8, down
- **COMBUSTION**: row 10, column 2, across
- **ENTHALPY**: row 12, column 1, across
- **EXOTHERMIC**: row 11, column 2, across
- **NOTATION**: row 2, column 13, down
- **PRECISION**: row 2, column 5, across
- **TEMPERATURE**: row 1, column 3, diagonal