

Enthalpy Changes and Calorimetry Word Search

In Chemistry 30, you investigate energy transfer in chemical reactions through calorimetry experiments ([Outcome](#)). Understanding how to use calorimetry data to determine enthalpy changes requires familiarity with key terms and concepts: the calorimeter itself, the principles of calorimetry, the heat equation $Q = mc\Delta T$ ([Equation](#)), exothermic and endothermic processes, the notation used to express enthalpy change ([Outcome](#)), and the materials and precision required for accurate measurements ([Resource](#)). This word search reinforces the vocabulary you need to master thermochemical analysis.

How to play

- Find and circle each word in the grid. Words run horizontally, vertically, or diagonally in any direction.
- All eight words appear in the puzzle. Some words may overlap or share letters.
- Check your answers against the answer key when you finish.

Words to find

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

Puzzle grid

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

Answer key

- **CALORIMETER**: row 10, column 3, across
- **CALORIMETRY**: row 6, column 3, across
- **COMBUSTION**: row 2, column 1, across
- **EXOTHERMIC**: row 11, column 1, across
- **NOTATION**: row 1, column 2, down
- **POLYSTYRENE**: row 8, column 2, across
- **PRECISION**: row 3, column 5, across
- **TEMPERATURE**: row 2, column 7, down