

Quadratic Functions Word Search

In Mathematics 20-1, you analyze quadratic functions by identifying their key features: the vertex, axis of symmetry, intercepts, and direction of opening ([Outcome](#), [Outcome](#)). You work with functions in both vertex form and standard form, using techniques such as factoring and graphing to solve problems ([Outcome](#), [Resource](#)). This word search reinforces vocabulary you will use when studying quadratic equations, inequalities, and real-world applications such as trajectory modelling ([Resource](#), [Outcome](#)).

How to play

- Find each word hidden in the grid. Words may run horizontally, vertically, or diagonally, and in either direction (left to right, top to bottom, or reversed).
- Circle or highlight each word as you find it. Use the word list as a checklist.
- When you have found all eight words, check your answers against the answer key.

Words to find

- FACTORING
- GRAPHING
- INEQUALITY
- INTERCEPT
- PARABOLA
- POLYNOMIAL
- SYMMETRY
- TRAJECTORY

Puzzle grid

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

Answer key

- **FACTORING**: row 3, column 12, down
- **GRAPHING**: row 11, column 5, across
- **INEQUALITY**: row 1, column 1, across
- **INTERCEPT**: row 2, column 5, down
- **PARABOLA**: row 4, column 7, down
- **POLYNOMIAL**: row 3, column 1, across
- **SYMMETRY**: row 2, column 4, down
- **TRAJECTORY**: row 1, column 9, down