

Particle Model Word Search

The particle model of matter explains how all substances behave by showing that matter is made of tiny particles ([Knowledge](#)). In this game, you will search for eight key words that describe particle movement, arrangement, and the properties of matter. As you find each word, think about how particles vibrate in solids, how they arrange in liquids and gases, and what attractive forces mean for the density and compressibility of different materials ([Knowledge](#), [Knowledge](#)).

How to play

- Find and circle each word in the grid. Words can read left to right, right to left, up and down, or diagonally.
- All eight words are hidden in the puzzle. Some letters may be used in more than one word.
- When you have found all the words, check your answers against the answer key.

Words to find

- ARRANGEMENT
- ATTRACTIVE
- COMPRESSIBILITY
- DENSITY
- MOVEMENT
- PARTICLE
- VIBRATE
- VOLUME

Puzzle grid

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

Answer key

- **ARRANGEMENT**: row 2, column 3, across
- **ATTRACTIVE**: row 2, column 6, down
- **COMPRESSIBILITY**: row 6, column 2, down
- **DENSITY**: row 13, column 3, across
- **MOVEMENT**: row 6, column 1, diagonal
- **PARTICLE**: row 4, column 3, across
- **VIBRATE**: row 3, column 1, diagonal
- **VOLUME**: row 10, column 6, across