

The Particle Model of Matter Word Search

All matter is made up of tiny particles that are always moving and have spaces between them ([PDF p.1](#), [Knowledge](#)). In a solid, particles vibrate close together, while in a liquid they slide past each other with more room to move ([Knowledge](#), [Resource](#)). This puzzle hides eight words connected to particles and their properties, including ARRANGEMENT, MOVEMENT, and DENSITY, ideas that help explain why a solid, liquid, or gas behaves the way it does ([Knowledge](#), [Understanding](#)).

How to play

- Search across, down, and diagonally to find all eight hidden words.
- Circle or highlight each word as you find it, then cross it off the word list.
- When you finish, use one found word in a sentence that describes a solid, a liquid, or a gas.

Words to find

- ARRANGEMENT
- COMPRESS
- DENSITY
- LIQUID
- MOVEMENT
- PARTICLE
- PROPERTY
- VIBRATE

Puzzle grid

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

Answer key

- **ARRANGEMENT**: row 3, column 5, down
- **COMPRESS**: row 3, column 6, across
- **DENSITY**: row 12, column 3, across
- **LIQUID**: row 4, column 11, down
- **MOVEMENT**: row 9, column 2, across
- **PARTICLE**: row 6, column 6, diagonal
- **PROPERTY**: row 3, column 9, down
- **VIBRATE**: row 5, column 6, diagonal