

The Particle Model of Matter: Word Search

Every solid, liquid, and gas is made of tiny particles that are always moving, with spaces between them ([PDF p.1](#), [Knowledge](#)). In this word search, you will look for words that describe how particles behave and how we measure the matter they make up, including MASS, VOLUME, and DENSITY ([Knowledge](#)). You will also find words like VIBRATE and ATTRACTIVE, which describe how particles move and pull on each other depending on whether they are packed into a SOLID or spread out with more freedom of MOVEMENT ([Knowledge](#), [Skills](#)).

How to play

- Search across, down, and diagonally to find all 8 hidden words about particles and matter.
- Circle or highlight each word as you find it, then cross it off the word list below.
- When you finish, use what you learned to explain to a partner how particles behave differently in a solid compared to a gas ([Outcome](#)).

Words to find

- ATTRACTIVE
- DENSITY
- MASS
- MOVEMENT
- PARTICLE
- SOLID
- VIBRATE
- VOLUME

Puzzle grid

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

Answer key

- **ATTRACTIVE:** row 6, column 1, across
- **DENSITY:** row 1, column 2, diagonal
- **MASS:** row 9, column 4, diagonal
- **MOVEMENT:** row 1, column 10, down
- **PARTICLE:** row 3, column 7, down
- **SOLID:** row 1, column 8, down
- **VIBRATE:** row 10, column 1, across
- **VOLUME:** row 1, column 6, diagonal