

# Particle Model of Matter Word Search

In Grade 5 science, you investigate how the particle model of matter explains the behaviour of particles ([Understanding](#)). All matter is made up of small particles that are always moving and have spaces between them ([Knowledge](#)). In solids, particles vibrate in place and are held together by attractive forces. In liquids and gases, particles have more freedom to move. Understanding how particles move, vibrate, and compress helps you explain the physical properties of different states of matter ([Understanding](#)).

## How to play

- Find and circle the eight words hidden in the grid below. Words can read left to right, right to left, up, down, or diagonally.
- Check off each word as you find it in the word list.
- Use the answer key to check your work when you finish.

## Words to find

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

## Puzzle grid

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

## Answer key

- **ATTRACTIVE:** row 1, column 8, down
- **COMPRESS:** row 5, column 3, diagonal
- **DENSITY:** row 4, column 9, down
- **MOVEMENT:** row 7, column 1, across
- **PARTICLE:** row 4, column 5, diagonal
- **SOLID:** row 8, column 3, diagonal
- **VIBRATE:** row 1, column 6, down
- **VOLUME:** row 10, column 3, across