

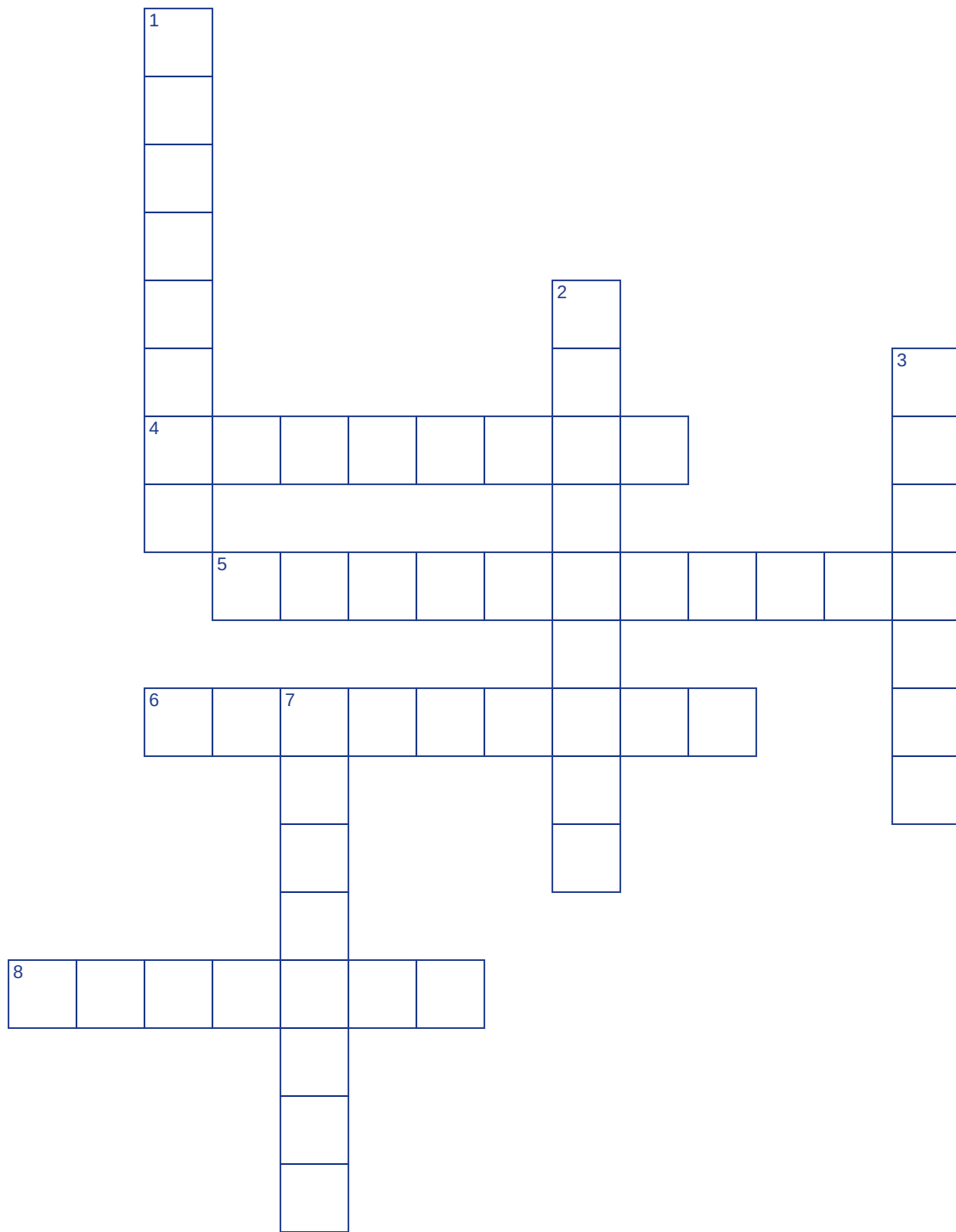
The Particle Model of Matter Crossword

In Grade 5 Science, you investigate how the particle model of matter explains the behaviour of solids, liquids, and gases ([Outcome](#)). The particle model tells us that all matter is made of small particles that are always moving, with spaces between them, and that the arrangement and movement of these particles affect the physical properties of matter ([Details](#)). In Grade 6, you learn how heating and cooling change the way particles move and the spaces between them, leading to expansion and contraction ([Details](#)). This crossword puzzle tests your understanding of key terms and ideas from the particle model, including how particles vibrate, how matter can compress, and how we measure temperature with a thermometer.

How to play

- Read each clue. Its number matches a numbered square in the grid.
- Write one capital letter in each square. There are 4 words across and 4 words down.
- Crossing words share a letter, so check it fits both. The answer key shows the finished grid.

Puzzle grid



Clues

Across

4. To squeeze something into a smaller space by applying pressure. (8)
5. A tool that measures temperature using the expansion or contraction of a liquid. (11)
6. An increase in volume when matter is heated. (9)
7. Adding energy to matter, which causes particles to move faster. (7)

Down

1. The upward force that allows objects to float in a fluid. (8)
2. How thick or sticky a fluid is, affecting how easily it flows. (9)
3. To move back and forth rapidly in place, as particles do in solids. (7)
4. A tiny piece of matter that makes up all substances. (8)

Answer key

- **1 down:** BUOYANCY
- **2 down:** VISCOSITY
- **3 down:** VIBRATE
- **4 across:** COMPRESS
- **5 across:** THERMOMETER
- **6 across:** EXPANSION
- **7 down:** PARTICLE
- **8 across:** HEATING

