

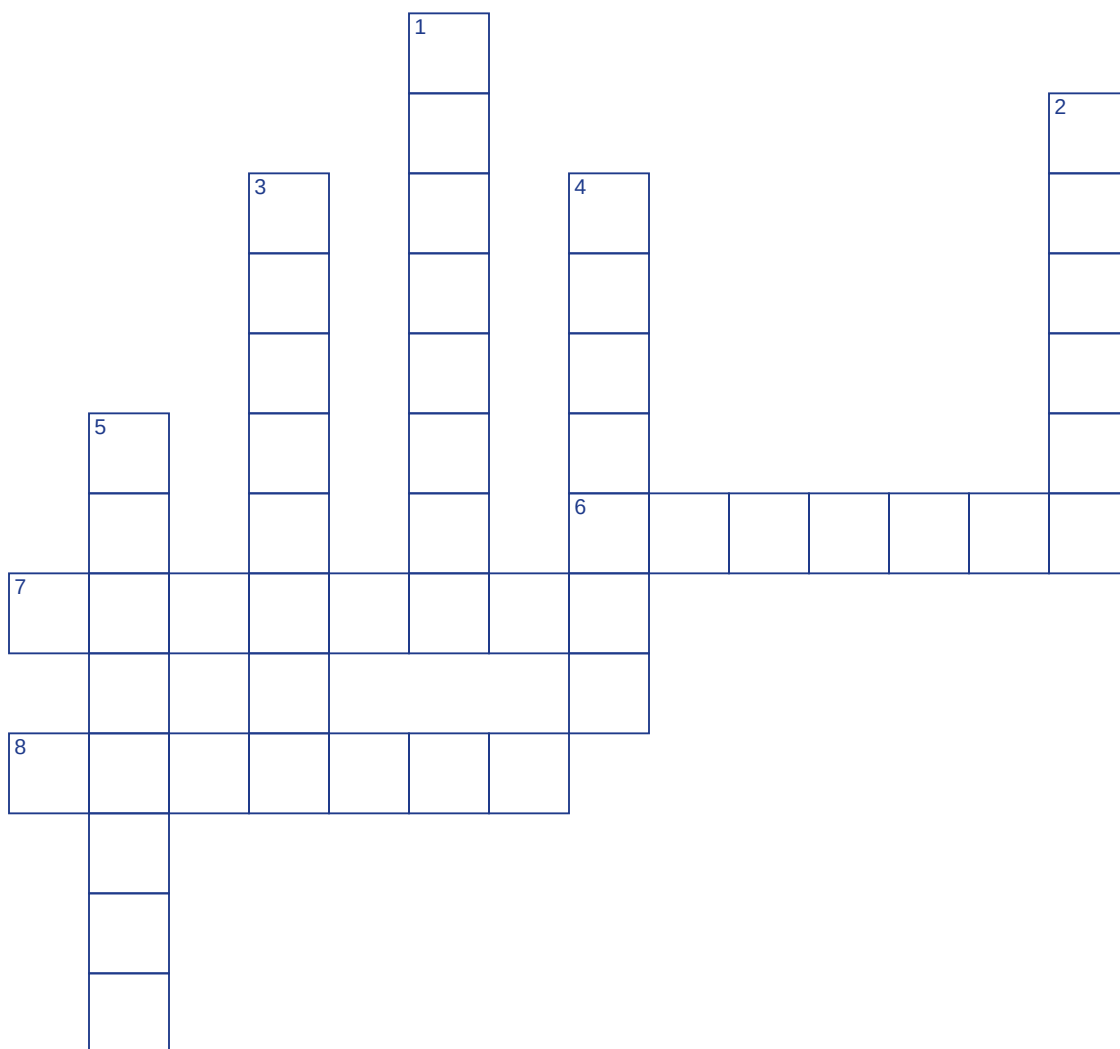
The Particle Model of Matter Crossword

All matter, from the water in your bottle to the air you breathe, is made of tiny particles that are always moving ([Knowledge](#), [PDF p.1](#)). In grade 5 science, you are learning how the particle model of matter explains why solids, liquids, and gases behave the way they do. This includes properties like volume and density ([Knowledge](#), [Understanding](#)). This crossword reviews the key words scientists use to describe particles and their behaviour. Grab a pencil and see how many you can fill in.

How to play

Read each clue carefully. Think about what you have learned about particles, states of matter, and their properties. Write your answer in capital letters. Put one letter per box. Fit the numbered squares in the grid. Some answers go across and some go down. If a word crosses another, the shared letter must be the same in both words. Use the words you already know to help you figure out the trickier ones. Work through the easier clues first. Then use the crossing letters to solve the rest.

Puzzle grid



Clues

Across

6. How particles are positioned or organized in matter ([Knowledge](#)) (7)
7. The way particles are always changing position ([Knowledge](#)) (8)
8. How much mass something has compared to its volume ([Knowledge](#)) (7)

Down

1. Tiny piece that all matter is made of ([Knowledge](#)) (8)
2. The amount of space something takes up ([Knowledge](#)) (6)
3. To squeeze a gas or liquid so it takes up less space ([Knowledge](#)) (8)
4. What particles in a solid do while staying in place ([Knowledge](#)) (7)
5. A characteristic of matter like state, mass, or volume ([Knowledge](#)) (8)

Answer key

- **1 down:** PARTICLE
- **2 down:** VOLUME
- **3 down:** COMPRESS
- **4 down:** VIBRATE
- **5 down:** PROPERTY
- **6 across:** ARRANGE
- **7 across:** MOVEMENT
- **8 across:** DENSITY

