

Particle Model of Matter: Hangman

All matter is built from tiny particles that are always moving and always have spaces between them ([PDF p.1](#), [Knowledge](#)). In solids these particles vibrate in place, in liquids they slide past each other, and in gases they zoom around with lots of space between them ([Knowledge](#)). This game reviews key words about the particle model, including how particles vibrate, how density compares mass to volume, and how gases can compress into a smaller space ([Knowledge](#)). Have fun guessing the words tied to this Grade 5 science outcome ([Outcome](#)).

How to play

Work with a partner or in a small group. One player picks a puzzle and keeps the answer key hidden. The other players guess one letter at a time.

Each correct letter gets filled into its blank space. Each wrong letter costs one part of the hangman drawing (or one point off your team's score, if you are not drawing). Guess the whole word before the drawing is finished to win the round.

Think about what you have learned about particles, states of matter, mass, volume, and density before you guess. Some words connect directly to ideas from your science class, so use what you know to narrow down your guesses.

Puzzles

Round 1 (7 letters)

V _ _ _ _ _ _

Clue: To move back and forth quickly in one place ([Knowledge](#))

Wrong guesses: _ _ _ _ _

Round 2 (8 letters)

P _ _ _ _ _ _ _

Clue: A tiny piece of matter that makes up all substances ([Knowledge](#))

Wrong guesses: _ _ _ _ _

Round 3 (7 letters)

D _ _ _ _ _ _

Clue: How much mass something has compared to how much space it takes up ([Knowledge](#))

Wrong guesses: _ _ _ _ _

Round 4 (8 letters)

C _ _ _ _ _ _ _

Clue: To squeeze something so it takes up less space ([Knowledge](#))

Wrong guesses: _ _ _ _ _

Answer key

- Round 1: **VIBRATE**
- Round 2: **PARTICLE**
- Round 3: **DENSITY**
- Round 4: **COMPRESS**

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