

Particle Model Word Guessing Game

In Grade 5 science, you learn how the particle model of matter explains how particles behave ([Understanding](#)). The particle model shows you that all matter is made of tiny particles with spaces between them. These particles are always moving ([Knowledge](#)). This game uses important words from your study of how particle movement and arrangement change the physical properties of matter ([Understanding](#)).

How to play

1. One player thinks of a word from the particle model of matter. The other player guesses one letter at a time.
2. If the letter appears in the word, write it in all the blanks where it belongs. If the letter does not appear, the guesser marks one point against them (up to 6 points total).
3. The guesser wins if they complete the word before reaching 6 wrong guesses. The thinker wins if the guesser reaches 6 wrong guesses before the word is completed.
4. Take turns being the thinker and the guesser.

Puzzles

Round 1 (11 letters)

A _ _ _ _ _

Clue: The way particles are positioned or organized ([Understanding](#))

Wrong guesses: _ _ _ _ _

Round 2 (6 letters)

V _ _ _ _

Clue: The amount of space something takes up ([Knowledge](#))

Wrong guesses: _ _ _ _ _

Round 3 (5 letters)

S _ _ _ _

Clue: A state of matter with a fixed shape and size ([Knowledge](#))

Wrong guesses: _ _ _ _ _

Round 4 (8 letters)

C _ _ _ _ _

Clue: To squeeze something into a smaller space ([Knowledge](#))

Wrong guesses: _ _ _ _ _

Answer key

- Round 1: **ARRANGEMENT**
- Round 2: **VOLUME**

- Round 3: **SOLID**
- Round 4: **COMPRESS**

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