

SQUARE UP!

OBJECTIVES

- Technical writing*
- Trial and error*
- Solve visual logic puzzles
- Explain processes

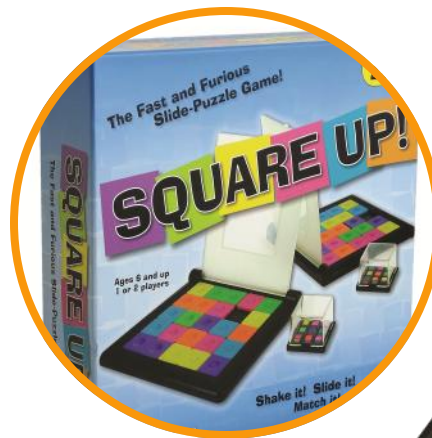
*Indicates STEM and/or Common Core objectives

GRADES

3-5

ESTIMATED TIME

45+ Minutes



MATERIALS NEEDED

- [Square Up!](#)
- Paper
- Writing Utensil

SETTING THE STAGE

- Discuss words that help describe a process (next, third, etc)
- Discuss words that help describe a location (below, to the right of, etc).

PROCEDURE

Give each student or pair a Square Up! board and solution.

Students will need to solve the Square Up! solution, but write out their steps in the process. Students must write down each step (starting with how their board is set up) so that someone else would be able to replicated their steps to the solution.

SQUARE UP!

PROCEDURE

Variations:

- Students draw each step (provide grid paper). A second pair of students must work their way to the solution. One partner will move the pieces and the other partner will describe what to do with only the graphs to guide them.
- Students work in pairs to solve a puzzle. One student is allowed to move the pieces and the other student must verbally instruct them. The first student is not allowed to say anything or make any moves that are not directly stated by the second student. The second student may not point or touch the game board and can only use verbal directions to guide the first student to solving the puzzle.

FOLLOW UP

- Was it difficult to give instructions without using your hands?
 - What words did you use the most when writing instructions?
- What words or phrases made it easy to understand instructions?

