

TEACHING ELEMENTS DOCUMENTED PROBLEM SOLUTIONS

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OVERVIEW:

This technique assesses students' ability to conduct problem solving and their recall of the problem solving steps/framework you have provided in class. Students are asked to solve a problem and to think about how they approach a problem as they write down the solution steps.

PROCESS:

1. Provide students with a problem situation/example. The situation/example should require a multi-step analysis.
2. Ask students to draw a line down the center of a piece of paper. On the left side of the paper, they should solve the problem, showing all of their work. On the right side of the paper, the student should write the step or component of the problem-solving technique their work reflects.
3. Review the work to identify three that are good examples of correct answers with well-documented work and three examples of incorrect work.
4. Use these examples to spark class discussion.