Three Phase Structure Math Lesson w/ 5-step Word Problem Solving Strategy

Modified Three Phase Structure Math Lesson;

I. 10 minutes: Help students understand the problem (\*) and clarify any vocabulary. Students work independently to solve using the 5-step word problem solving strategy and template provided. Students save these templates to be scored during the 15-minute debriefing session.

II. 15 minutes: Students work together in groups to come up with a group solution and presentation. Teacher strategically chooses groups to present, going from concrete examples to more abstract ones.

III. 15 minutes: Group presentations with students justifying and explaining their solutions. Teacher and students critique solutions and ask questions of presenters to help clarify their explanations.

IV. 5 minutes: Score some of the templates based on rubric.

\* 5 Step word problem solving strategy:

1. A word problem asks a question. Can you identify the question in the following word problem?
2. In each question there are always important words. Can you identify words in this question that you think are important to solving this problem?
3. In each math problem there are always numbers that you need to solve the problem. Can you identify the numbers that you need to solve this problem?
4. Use the key words and numbers are to set-up and solve a math problem. Can you use these key words and numbers to set-up the problem so that you can solve the word problem? (Might take more than one or two steps)
5. After solving the math problem, you need to check your answer. Can you check your answer using numbers and by explaining what you did?

Rubric

|  |  |  |
| --- | --- | --- |
| Task | Points Possible | Points Earned |
| Identified the question in the word problem | + 1 |  |
| Identified important words in the question that help to solve this problem | + 1 |  |
| Identified the numbers needed to solve this word problem | + 1 |  |
| Came up with a plan to solve the problem | + 2 |  |
| Solved the problem correctly | + 2 |  |
| Explained and justified their solutions using sentences. | + 3 |  |

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