How do I teach students to analyze a problem to ensure that they a solving the root cause and are documenting there process?

Here are some steps you can follow to teach students how to analyze a problem and solve the root cause:

Encourage students to define the problem clearly: First, encourage students to define the problem as clearly as possible. This may involve breaking the problem down into smaller, more manageable parts.

1. Encourage students to gather and analyze data: Encourage students to gather and analyze data related to the problem. This could include collecting data through research, observations, or experiments.
2. Encourage students to identify potential root causes: Encourage students to think critically about the problem and identify potential root causes. This may involve brainstorming ideas and considering a range of possible explanations.
3. Encourage students to evaluate and select a solution: Once students have identified potential root causes, encourage them to evaluate the pros and cons of each solution and select the one that is most likely to be effective.
4. Encourage students to document their process: Encourage students to document their process as they work through the problem-solving process. This could involve keeping a record of their data, observations, and thought process, as well as any solutions they try.

I hope these suggestions are helpful! Let me know if you have any other questions.

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