

CBA Scaffolded Template

1. Define your problem

Here you state your mathematical problem. You must state what your question or investigation is in a specific and concise way. You don't want to have a broad and vague question as this will be hard to answer. You want to narrow down your question to the exact thing you want to solve and what you want to find out. Here you should mention why you chose this problem. Can you predict what the outcome may be?

2. Make assumptions (Where necessary)

Not everyone will have to complete this step. You may need to restrict your problem and so assumptions may be necessary. If you make any assumptions, make sure you justify them. Here are some examples of assumptions: you may need to assume a pool you're constructing will be 2m deep, or that you have a €1,000 budget for your garden makeover, or that you're ignoring wind resistance in a situation.

3. Break the problem into manageable parts

What will you do first to try to solve your problem? What will you do next? This is an important step, and you should spend a good bit of time on it. Here you must state exactly how you are planning on solving the problem. Literally list the steps you will follow, i.e Step 1, Step 2, Step 3, ... Explain how you will complete each step.

For example, say you are completing a bedroom makeover. The steps may look like this:

Step 1: Draw a plan of the room and find measurements using a measuring tape

Step 2: Make a list of new items needed for the room – bed, carpet, paint, rug.

Step 3: Find the cost of the items needed by researching 3 different online shops

And so on...

