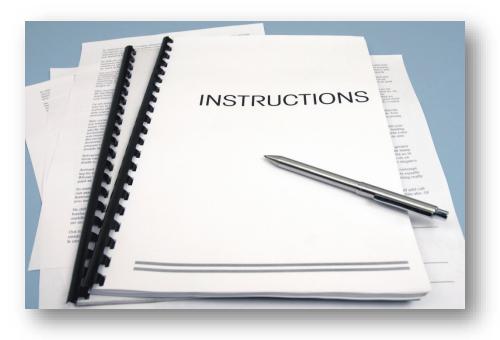
Writing Instructions



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Over the course of your career, you'll write "instructions" constantly **Protocols for how to perform experiments or** do data analysis Methods sections for papers and talks Work procedures for subordinates **Lesson plans for teaching Management plans for projects** The purpose of written instructions is to get somebody to do something in exactly the right way

Instructions must include:

The "ingredients"

The equipment needed

A chronological, stepby-step explanation of what to <u>do</u>



Periodic built-in checks to assess status

Instructions should emphasize:

Hazardous materials or conditions

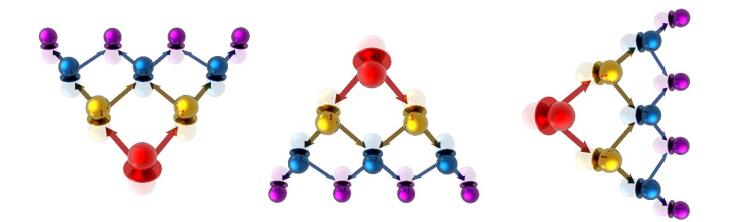
Likely mistakes



Instructions should have an obvious logical structure

Chronology (first to last)

Priority (most important to least important)



Each step should consist of *only* <u>one</u> discrete action

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- 1. Place all dry ingredients in a medium bowl
- 2. Stir with a fork to mix ingredients thoroughly
- 3. Make a well in the center of the ingredients
- 4. Add the egg yolks, sugar, and vanilla to the well
- On medium speed, beat with an electric mixer for 3 minutes
- Gradually add the whipping cream while continuing to beat the mixture for an additional 5 minutes

Point out possible failure points or likely mistakes



Build in checkpoints so the user can assess progress and insure success



- 1. After adding the reagent, check the pH—it should be at least 5.2.
- 2. After shaking, the fluid should be bright green (between 8 and 10 on the color scale).

- 3. Before adding the solvent, be sure the fume hood is ON.
- 4. Check to see that the water is turned off at the main before dismantling the toilet.

Avoid ambiguous language—think about how readers will interpret your words



Advice from Celia's grandmother: "It's impossible to make anything foolproof, because fools are so ingenious."

No jargon! Use the simplest word that accurately and unambiguously conveys your meaning



Lost in Jargon

To recap:

Analyze the audience—what do they already know? What will confuse them?

Be sure to list all "ingredients" and all "equipment"

Anticipate likely mistakes and failure points

Include only one action per step

Write precisely and use familiar language

Remember IITMAFBFASI—but still try



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