

## Tags

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## Lab Format

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**Title:** what the lab is about

**Background:** some information to give context to your reader

**Purpose:** what you hope to study

**Materials:** everything needed for the experiment

**Procedure:** what you do with these things to study the purpose

**Data:** any numbers, charts, tables or information using numbers

**Observations:** anything not explained by your numbers above

**Error Analysis** (optional, but required in college): what went wrong, possible reasons or explanations, when proving something or synthesizing something, what is your yield, percent error, and why

**Conclusions:** think back to your purpose—what did you discover, how would you improve upon this in the future, what lessons could be shared with others?

### Example:

**Title:** Making Chocolate chip cookies

**Background:** Home made chocolate cookies are the best, so making them at home is a necessary skill

**Purpose:** To make chocolate chip cookies at home

**Materials:** flour, sugar, butter, sugar, vanilla, sugar, chocolate chips (nuts optional, but yucky)

**Procedure:** Pre-heat oven to 550°F, mix ingredients, test for taste, put blobs on greased cookie sheet and bake for 45 minutes.

**Data:** 12 totally burned cookies, 25 grams each

**Observations:** cookies were burnt to a crisp, inedible and quite stinky

**Error analysis:** temperature was too high, baking time was too long

**Conclusions:** next time we try this, we should reduce temp and cooking time