

## Writing the Materials and Methods Section of a Lab Report

### ***Learning Objectives:***

- Discuss the purpose of a materials and methods section
- Analyze sample materials and methods sections from an undergraduate lab report to identify the ways in which they successfully demonstrate scientific writing
- Select essential details to include in a materials and methods section
- Refer to and cite lab manual according to instructions

### ***Learning to Write Scientifically***

As in BIOL 1110, a major component of your learning in the lab component of this course focuses on the ability to communicate clearly and according to the expectations of the scientific community. This module introduces you to the expectations for a materials and methods section. Much of your work will involve analyzing two example materials and methods sections, evaluating how each meets (or fails to meet) the criteria for effective lab report writing.

### **Content of a Materials and Methods Section – What did you do exactly?**

#### **How did you do it?**

When you are using a procedure from the lab manual it is sufficient to refer to and cite the lab manual once at the beginning of the methods section using the following format and then follow with the description of the experimental design in your own words:

“This experiment was performed with modifications as described in the BIOL 1110 lab manual (Faculty of Science and Horticulture, 2017).”

Clearly outline the basic design of the study, and how you did the experiment, along with what methods, materials, and equipment you used. Part of writing an effective materials and methods section involves including only relevant details. You want to give enough information so that your experiment can be reproduced by others in your field, but not so many details that your reader gets lost in the minutiae (i.e. trivial details that are unnecessary to understanding the experimental design).

In your description include relevant measures (exact concentrations, times, number of replicates, etc.), and a section on how you will analyze the results (e.g. statistical formulas, reaction rates, etc.) in paragraph form.

The materials and methods section should be written in past tense as the experiment has already been completed. Any changes that you bring to the prescribed procedure must be documented in this section. Tip: You should write this section first, shortly after completing your lab activity while your memory is fresh.

Answer the following questions as you consider the purpose of a materials and methods section:

1. Why is a materials and methods section included in a standard lab report?
2. Consider examples of professional writing in the scientific community (e.g. journal articles). Why do scientists share the methods used in their research?

# Materials And Methods In Lab Report

**Jessica J Manson**



## **Materials And Methods In Lab Report:**

## Unveiling the Energy of Verbal Beauty: An Mental Sojourn through **Materials And Methods In Lab Report**

In some sort of inundated with displays and the cacophony of immediate conversation, the profound energy and psychological resonance of verbal art often disappear into obscurity, eclipsed by the continuous onslaught of noise and distractions. However, set within the musical pages of **Materials And Methods In Lab Report**, a fascinating perform of fictional splendor that impulses with raw emotions, lies an unique trip waiting to be embarked upon. Penned with a virtuoso wordsmith, that mesmerizing opus courses readers on a psychological odyssey, softly revealing the latent possible and profound impact stuck within the delicate internet of language. Within the heart-wrenching expanse of the evocative evaluation, we can embark upon an introspective exploration of the book is key subjects, dissect their captivating writing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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