

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

What's the point of these labs?

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What is the purpose of the labs?
Where do I get the lab information?
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Why are we here?

What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

Why are we here?

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?

What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

Why are we here?

- PC141 labs introduced the *research process*;

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?

What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

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- PC141 labs introduced the *research process*;
PC142 labs will *expand on that*.

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?

What's different this term?

Learning Objectives

What happens each week?

What is the most important lab requirement?

How do I survive the lab report?

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- PC141 labs introduced the *research process*;
PC142 labs will *expand on that*.

As in PC141, this process is not specific to this course;

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?

What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

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- PC141 labs introduced the *research process*;
PC142 labs will *expand on that*.

**As in PC141, this process is not specific to this course;
it isn't even specific to physics**

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?

What's different this term?

Learning Objectives

What happens each week?

What is the most important lab requirement?

How do I survive the lab report?

What's different this term?

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?

What's different this term?

Learning Objectives

What happens each week?

What is the most important lab requirement?

How do I survive the lab report?

What's different this term?

- Using **graphs** in labs -

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?

What's different this term?

Learning Objectives

What happens each week?

What is the most important lab requirement?

How do I survive the lab report?

What's different this term?

- Using **graphs** in labs -
linearizing equations to produce straight line graphs

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?

What's different this term?

Learning Objectives

What happens each week?

What is the most important lab requirement?

How do I survive the lab report?

What's different this term?

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graphing and least squares fitting with a spreadsheet

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?

What's different this term?

Learning Objectives

What happens each week?

What is the most important lab requirement?

How do I survive the lab report?

What's different this term?

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What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?

What's different this term?

Learning Objectives

What happens each week?

What is the most important lab requirement?

How do I survive the lab report?

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What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What's different this term?

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As in PC141, the finished report will illustrate the entire research process and how it leads to answering the research question(s).

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What's different this term?

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The *specific* experiment isn't that important;

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

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As in PC141, the finished report will illustrate the entire research process and how it leads to answering the research question(s).

The *specific* experiment isn't that important; **its value is to illustrate the process.**

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?

Learning Objectives

What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

Learning Objectives

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?

Learning Objectives

What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

Learning Objectives

There are 3 types of learning objectives:

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?

Learning Objectives

What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

Learning Objectives

There are 3 types of learning objectives:

① Conceptual

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?

Learning Objectives

What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

Learning Objectives

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- 1 Conceptual
understanding certain ideas

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?

Learning Objectives

What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

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- ② Practical

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

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- ① Conceptual
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- ② Practical
applying knowledge to specific “real-world” tasks

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?

Learning Objectives

What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

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- ② Practical
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- ③ Communication

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

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- ② Practical
applying knowledge to specific “real-world” tasks
- ③ Communication
presenting information and results in formats which are typical in professional settings

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

Learning Objectives

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- ① Conceptual
understanding certain ideas
- ② Practical
applying knowledge to specific “real-world” tasks
- ③ Communication
presenting information and results in formats which are typical in professional settings

Different types of learning objectives often lead to different types of assessments.

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?

Learning Objectives

What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

Conceptual Learning Objectives

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?

Learning Objectives

What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

Conceptual Learning Objectives

Important ideas to grasp include:

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?

Learning Objectives

What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

Conceptual Learning Objectives

Important ideas to grasp include:

- 1 Identifying linear relationships between variables in an equation

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

Conceptual Learning Objectives

Important ideas to grasp include:

- ① Identifying linear relationships between variables in an equation
- ② Recognizing the significance of whether the scatter of points on a graph is large or small

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

Conceptual Learning Objectives

Important ideas to grasp include:

- ① Identifying linear relationships between variables in an equation
- ② Recognizing the significance of whether the scatter of points on a graph is large or small
- ③ Suggesting improvements to an experiment, based on graphical analysis

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?

Learning Objectives

What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

Practical Learning Objectives

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?

Learning Objectives

What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

Practical Learning Objectives

Tasks to become familiar with include:

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?

Learning Objectives

What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

Practical Learning Objectives

Tasks to become familiar with include:

- 1 Graphing data with error bars

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?

Learning Objectives

What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

Practical Learning Objectives

Tasks to become familiar with include:

- ① Graphing data with error bars
- ② Performing least squares fits on linear data

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

Practical Learning Objectives

Tasks to become familiar with include:

- ① Graphing data with error bars
- ② Performing least squares fits on linear data
- ③ Determining uncertainties in the slope and y-intercept of linear graphs, based on whether the scatter of points is large or small

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?

Learning Objectives

What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

Communication Learning Objectives

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?

Learning Objectives

What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

Communication Learning Objectives

Professional forms of communication include:

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

Communication Learning Objectives

Professional forms of communication include:

- 1 **Writing a professional lab report, incorporating x-y graphs and graphical analysis**

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives

What happens each week?

What is the most important lab requirement?
How do I survive the lab report?

What happens each week?

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What happens each week? (before the lab)

Before the lab

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What happens each week? (before the lab)

Before the lab

- Read “*Theory*” section of lab manual

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What happens each week? (before the lab)

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What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What happens each week? (before the lab)

Before the lab

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OR

Read alternative document

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

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What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What happens each week? (before the lab)

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Watch screencast (video) of alternative document

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What happens each week? (before the lab)

Before the lab

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Watch screencast (video) of alternative document
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What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What happens each week? (before the lab)

Before the lab

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- Pre-lab **tasks** -

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What happens each week? (before the lab)

Before the lab

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things which have to be done *before* the lab

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What happens each week? (before the lab)

Before the lab

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things which have to be done *before* the lab

These ensure that you are *prepared* for the lab.

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives

What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What happens each week? (during the lab)

During the lab

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What happens each week? (during the lab)

During the lab

- In-lab **tasks** -

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What happens each week? (during the lab)

During the lab

- In-lab **tasks** -
things which have to be done *during* the lab

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What happens each week? (during the lab)

During the lab

- In-lab **tasks** -
things which have to be done *during* the lab
- In-lab **questions** -

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What happens each week? (during the lab)

During the lab

- In-lab **tasks** -
things which have to be done *during* the lab
- In-lab **questions** -
questions which have to be answered *during* the lab

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What happens each week? (during the lab)

During the lab

- In-lab **tasks** -
things which have to be done *during* the lab
- In-lab **questions** -
questions which have to be answered *during* the lab

These have to be completed *while you have the equipment in front of you.*

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What happens each week? (after the lab)

After the lab

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What happens each week? (after the lab)

After the lab

- Post-lab **tasks** -

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What happens each week? (after the lab)

After the lab

- Post-lab **tasks** -
things which can be completed *after* the lab

What is the **purpose of the labs**?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What happens each week? (after the lab)

After the lab

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What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What happens each week? (after the lab)

After the lab

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What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What happens each week? (after the lab)

After the lab

- Post-lab **tasks** -
things which can be completed *after* the lab
- Post-lab **questions** -
questions which can be answered *after* the lab

These often require *further analysis* which can be done outside the lab.

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?

What is the most important lab requirement?
How do I survive the lab report?

What is the most important lab requirement?

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?

What is the most important lab requirement?
How do I survive the lab report?

What is the most important lab requirement?

- The **lab report** -

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

What is the most important lab requirement?

- The **lab report** -
it's worth *at least* 30% of your lab grade

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?

What is the most important lab requirement?
How do I survive the lab report?

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- The **lab report** -
it's worth *at least* 30% of your lab grade
it's worth *at most* **50%** of your lab grade

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

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- The **lab report** -
 - it's worth *at least* 30% of your lab grade
 - it's worth *at most* **50%** of your lab grade

That's right; 50%!

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

How do I survive the lab report?

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

How do I survive the lab report?

- It won't be due until the 4th lab.

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

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- *If you're not happy with the mark, you can resubmit it at your last lab period.*

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

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- *If you're not happy with the mark, you can resubmit it at your last lab period.*

There will be feedback on it which can help you improve it.

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
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- It won't be due until the 4th lab.
- *If you're not happy with the mark, you can resubmit it at your last lab period.*
There will be feedback on it which can help you improve it.
- *The better your mark on the final lab report, the more it will count toward your final lab grade.*

What is the purpose of the labs?
Where do I get the lab information?
What about laptops in the lab?

Why are we here?
What's different this term?
Learning Objectives
What happens each week?
What is the most important lab requirement?
How do I survive the lab report?

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Since the lab report puts together all that you've learned in the process, it can replace lower marks on exercises which you got while learning the process.

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- The website -

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denethor.wlu.ca/pc142

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Bookmark the page for your labs, whether it's odd or even.

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There is a lot of stuff on the webpage, so spend some time to become familiar with how it is laid out.

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- Do I need a laptop?

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All of the software we use is available in the computer labs and/or has free alternatives.

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- Can I use a laptop?

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You can save trees and possibly time.

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