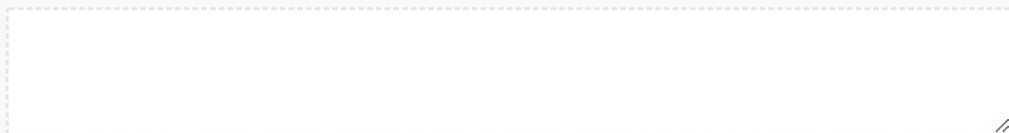gradescope

GradeScope Assignment Modules will Include Different Types of Questions

Q2 Purpose
2 Points

In 1-2 sentences, describe what the experiment entails and the objectives of the experiment.

Type answer directly into the text box

Q3 Procedue - Pre-lab
5 Points

Prior to the laboratory, create the procedural flowchart and write out the experimental protocols for the experiments that you will conduct in the laboratory in your lab notebook, in your own words. Procedural flow charts should show the experimental steps, the input and output of each step, and the experimental conditions. The experimental protocols should also include tables of reagents that will used in the experiment including, where appropriate, reagent molarities (for solutions), measured quantities (mass or volume), and number of moles. Tables that you will use for collecting data should also be prepared. Also be sure to include blank spaces in your procedure for the observations and measurements that you will make during the experiment.

Create a pdf of your handwritten procedures and tables.

📄 No files uploaded

Upload a file that is viewable within GradeScope
(see next page)

Only Upload Files that are Viewable within GradeScope!
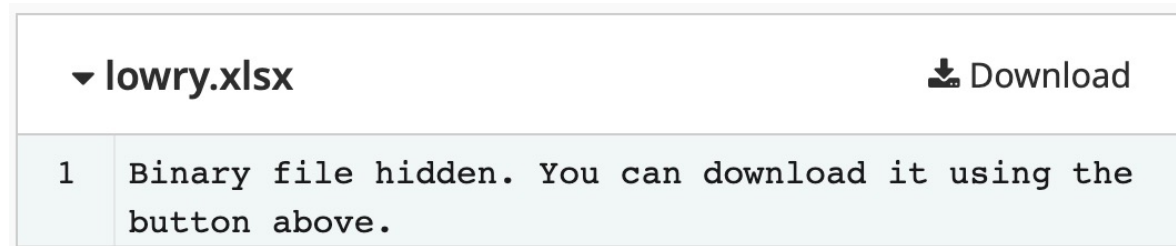
File types viewable within GradeScope:

A single PDF (under 100 Mb)

.png, .jpg, .gif, .heic

File types NOT viewable within GradeScope:

Binary files (.doc, .docx, .xls, .xlsx)

You will get the following message if you upload the wrong file. We will not download your file to grade it

Importing Images to GradeScope
Remember: We can't rotate the images

Take a picture of the table in your notebook, and upload it below

Take pictures or screen shots of the graphs, and upload them below

Graph 1:
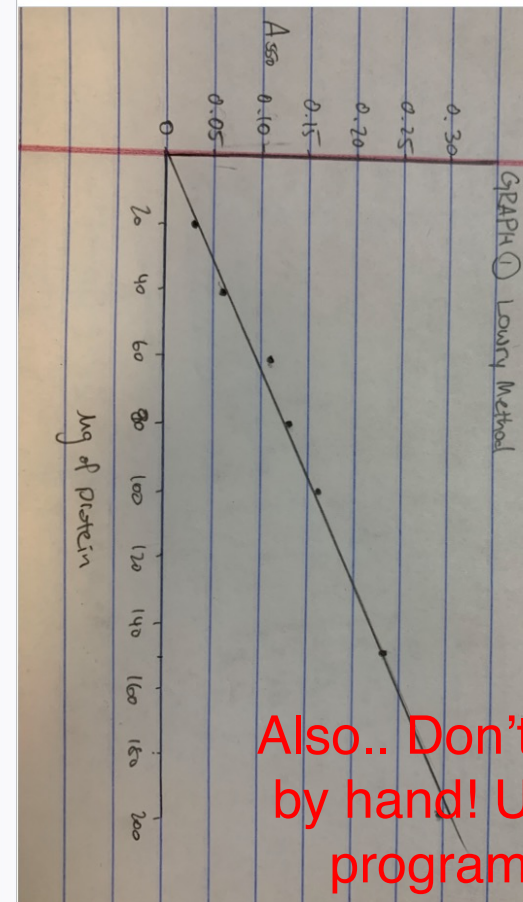
Also.. Don't create graphs by hand! Use a graphing program, like Excel.

Importing Images to GradeScope
Do not expect us to find your answer!

Show a sample calculation for calculating % error. Take a picture of your calculation and answer. Upload the picture below.

Show a sample calculation for calculating % error. Take a picture of your calculation and answer. Upload the picture below.

3.1 Section B

Tube 13 - lysozyme

$$\% \text{ error} = \left(\frac{\text{measured value} - \text{expected value}}{\text{expected value}} \right) \times 100\%$$

$$= \frac{161 - 100}{100} \times 100\% = 61\% \text{ error}$$

X = 13.13 ug protein

tube 12 : A = 0.007

0.007 = 0.0016x

X = 4.375 ug protein

100
100
100

91.8 156.8
155 74
445 93

Q 3.1
range of % error calculation

Lowry
lysozyme = ((156.8-100)/100) · 100% = 56.8%

gelatin = ((174-100)/100) - 100% = ±26%

0.049 = 0.0107x, x = 4.579 ug protein

protein concentration calculation

tube 9 = $\frac{0.04897 \text{mg}}{0.15\text{me}}$ = 0.326 mg/me

tube 10 = $\frac{0.0143 \text{mg}}{0.15\text{me}}$ = 0.095 mg/me

tube 11 = $\frac{0.004766 \text{mg}}{0.15\text{me}}$ = 0.0318 mg/me

tube 12 = $\frac{0.004579 \text{mg}}{0.15\text{me}}$ = 0.03 mg/me

Dye-Binding = range of % error calculation

lysozyme = ((43.64-50)/50) · 100% = -12.72%

gelatin = ((23.18-50)/50) - 100% = -53.64%