

Chemistry 12 Online Full Year StartUp Assignment

Please read each portion of the StartUp document carefully. **This document must be completed before you are fully activated in the class. Submit the completed document into the "StartUp Assignment" folder.**

Student Learning Plan (SLP)

In the following table, you will see two columns beside courses. **"C" stands for completed** and **"IP" stands for in-progress**. Please put a checkmark in the appropriate box. For courses you have not taken yet, please leave it blank.

What grade are you currently in?							
If you are on the adult graduation program, or have graduated, check this box, and go on to page 2. Contact your VLN counsellor if you are not sure which graduation program you are on.							
Required Courses (52 credits for graduation)							
		C	IP		C	IP	
English 10 Composition (2) (or other English 10 course)				Science 11 or 12 (4)			
English 10 Literary Studies (2) (or other English 10 course)				Mathematics 10 (4) (Workplace or Foundations/Pre-Calculus)			
Literary Studies 11 or Composition 11 (4)				Mathematics 11 or 12 (4) (Workplace, Foundations or Pre-Calculus)			
English Studies 12 or English 12 First Peoples (4)				Physical and Health Education 10 (4)			
Social Studies 10 (4)				Arts Education and/or Applied Design, Skills and Technologies (4)			
Social Studies 11 or 12 (4)				Career Life Education 10 (4)			
Science 10 (4)				Career Life Connections & Capstone 12 (4)			
Elective Courses (28 credits for graduation)				Required Assessments		C	
	Course Name	C	IP	Grade 10 Numeracy			
Grade 10, 11, or 12				Grade 10 Literacy			
				Grade 12 Literacy			
				Please ensure you complete at least one Indigenous or First Peoples course (Grade 10, 11, or 12) in order to graduate.			
Grade 12				Course Name		C	IP
Date and Signature							
Student's Full Name (type)				Date			

StartUp Assignment

It's a total of 20 marks and worth 1% of your overall grade.

You can add more rows by clicking into the last box (bottom right) and clicking on the Tab key.

ALL RESPONSES MUST BE WRITTEN or TYPED IN THIS DOCUMENT.
Please complete all questions and upload your work to the "Start Up Assignment" Folder.
(Total out of 20 marks)

Make sure you read over the course module pages available to you before completing and submitting this assignment: 1.1: Math in Science (Review). Some of these questions are based on information you would have learned in Chemistry 11, or Pre-Calculus 11 (recommended pre-requisite courses for Chemistry 12) and so you may need to review your material from these courses. An online resource you could use to help you is the CK-12 Chemistry Online Textbook: <https://www.ck12.org/book/ck-12-chemistry-intermediate/>

Make sure you **show all your work and that your answers include enough detail**. When showing your work make sure it is logical, includes formula, units, and the correct number of significant figures in your answers.

1) Write the number of significant digits in each of the following measurements (2 marks):		
a)	7.200253	Answer:
b)	8.09×10^{-3}	Answer:

2) Find the correct answers to the following calculations and express them with the CORRECT number of significant digits. (2 marks):		
a)	$32.50 \div 2.0$	Answer:
b)	$6.305 + 1.1$	Answer:

3) Round the following to 3 significant digits. Give answers using scientific notation. (2 marks):		
a)	0.006089	Answer:
b)	7.8004	Answer:

4) Convert the following numbers and units into the final units indicated. Enter your answer in the space provided and SHOW YOUR WORK in the square provided below. Please ensure you use conversion factors appropriately. (4 marks)		
a)	0.035 nm^3 to L	Answer:
b)	25,000 mL to m^3	Answer:

- 5) Plot a Mass versus Volume graph for an unknown liquid using the data below. You must use graph paper, pencil, and a ruler. Make sure your graph has a title; axes are labelled correctly, and you've used appropriate scales that increase in equal increments. You will need to draw a best fit line (using a ruler). Please copy and paste in a picture or scanned image of your graph into the space provided. (**6 marks**)

Table 1: Mass and Volume of an unknown Liquid

<u>Mass (g)</u>	<u>Volume (mL)</u>
2.00	1.56
3.50	2.73
5.00	3.90
7.50	5.85
10.20	7.80
11.40	8.77
13.00	10.14
14.50	11.31
16.00	12.48
17.50	13.65
19.00	14.83
20.00	15.60

Answer:

- 6) For the graph you made in Q5, calculate the slope. Show all work: slope formula; substitution step (slope points from best fit line; with units; answer after the subtraction; with units; and final answer, with units and correct number of significant figures.). You can do this by hand and take a picture (copy and paste the picture in or scan the picture and paste it in) or you can type out all your work. (**3 marks**)

Answer:

- 7) For the graph you made in Q5, please give the line equation in the format of " $y = mx + b$ "; please ensure your line equation includes units. Please ensure you have labelled the value of "b" on the graph you submitted for Q5 so I can verify how you determined what "b" was equal to. (**1 mark**)

Answer:

Academic Integrity Student Contract

Plagiarism is presenting someone else's work as though it is your own. Plagiarism may consist of work copied from the Internet, from another student, or work generated by Artificial Intelligence or other electronic means.

Plagiarism represents a failure of integrity. Plagiarism damages a student's character and limits the student's learning from the course.

VLN has a zero-tolerance policy on plagiarism. We use professional tools to identify plagiarized or AI-generated student submissions.

If you are caught plagiarizing course assignments or cheating on an exam, this incident will be documented in our MyEdBC provincial student information system. Plagiarism may result in VLN administration meetings with the student and their parents (for school-aged students). Repeated incidents of plagiarism may result in withdrawal from the course or school.

My Pledge to Academic Integrity

Please sign and date the following agreement:

I agree that I will not attempt to plagiarize work in any VLN course assignments or cheat on any VLN exams. I also agree that assignments I submit that are suspected of plagiarism may be scanned, stored, and accessed by US-based servers.

e-Signature:		You can simply type in your name.
Date:		



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Assignment Feedback

Course Name: Chemistry 12 Online Block 4

Student Name: **type your name here**

Feedback Date: July 18, 2025

Mark: /20 = %

Teacher Comments:

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Ok, I am done with the assignment. What do I do now?

- This document must be submitted as a .docx file. See below on how to name it.
- The next step is to upload it to the *StartUp Document* folder.
- The teacher will then mark your assignment, provide you with feedback, and begin opening the rest of the course. This can take up to 5 school days.

Please rename this file Using the following format:

Your PEN#-StartUp-CH12B4-LASTNAME-Firstname

Ex. 123456789-StartUp-CH12B4-MOUSE-Mickey.docx