



Chemistry



Advice for Year 11 and 12 students learning from home

The Queensland Curriculum and Assessment Authority (QCAA) understands that the COVID-19 pandemic has changed the way many senior students are accessing their learning.

We've prepared some suggestions to help you with your studies.

Resources to support preparation for assessment

Assessment type	Suggestions to support learning from home
Data test (IA1) 	<ul style="list-style-type: none">• Review the Internal assessment 1 (IA1) section of the subject report that can be found on the Teaching tab on the Chemistry subject page. Focus on the points about effective practices.• Review the mandatory and suggested practicals, activities and case studies for Unit 3 using online resources, such as<ul style="list-style-type: none">– Royal Society of Chemistry titration screen experiment https://edu.rsc.org/resources/titration-screen-experiment/2077.article– ChemReaX simulations and virtual labs, e.g.<ul style="list-style-type: none">▪ acid-base titrations www.sciencebysimulation.com/chemreax/AnalyzerAB.aspx▪ Le Chatelier's Principle https://chem.libretexts.org/Bookshelves/Ancillary_Materials/Interactive_Applications/ChemReaX%3A_Chemical_Reaction_Simulator/ChemReaX_-_Virtual_Lab_Exercises/ChemReaX_Virtual_Lab%3A_Le_Chatelier's_Principle_-_Concentration_Variations▪ practice exercises www.sciencebysimulation.com/chemreax/Exercises.aspx– ChemDemos simulations https://chemdemos.uoregon.edu.• Create practice data test questions using primary data from practicals you have done in class.• Use the IA1 sample assessment instrument: Data test (10%) as a practice data test.• Mark your responses to the sample data test using the IA1 sample marking scheme: Data test (10%).
Student experiment (IA2) 	<ul style="list-style-type: none">• Review the Internal assessment 2 (IA2) section of the subject report that can be found on the Teaching tab on the Chemistry subject page. Focus on the samples of effective practices.• Consult with your teacher to determine a method that allows you to collect primary data remotely, such as ChemCollective virtual labs http://chemcollective.org/vlabs.• Consider strategies to modify your research question to suit the data that you may be required to collect remotely.• Use the IA2 high-level annotated sample response: Student experiment (20%) for Chemistry and the samples from other similar Science subjects (e.g. Biology, Physics) as examples of high-level responses.

Assessment type	Suggestions to support learning from home
Research investigation (IA3) 	<ul style="list-style-type: none"> Review the Internal assessment 3 (IA3) section of the subject report that can be found on the Teaching tab on the Chemistry subject page. Focus on the samples of effective practices. Use online resources to collect secondary data relevant to your research question, such as <ul style="list-style-type: none"> Royal Society of Chemistry open access www.rsc.org/journals-books-databases/about-journals/opena Elsevier Chemistry open access www.elsevier.com/physical-sciences-and-engineering/chemistry/journals/chemistry-open-access Wikipedia list of open access journals https://en.wikipedia.org/wiki/List_of_open-access_journals for Chemistry and other science subjects. Consider strategies to modify your research question to suit the data that you may be required to collect remotely. Use the IA3 high-level annotated sample response: Research investigation (20%) for Chemistry and the samples from other similar Science subjects (e.g. Biology, Physics) as examples of high-level responses.
External assessment (EA) 	<ul style="list-style-type: none"> Review past papers and the sample external assessment that can be found on the Assessment tab on the Chemistry subject page. Review the External assessment section of the subject report that can be found on the Teaching tab on the Chemistry subject page. Focus on <ul style="list-style-type: none"> examples of effective student responses and practices practices to strengthen, including recommendations to consider when preparing for external assessment.

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