

Exam Question	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	FREQUENCY
Acids, Bases & PH calculations	Q 7	Q 4 & Q 11	Q 9	Q 4 & Q 10	Q 9	Q 7	Q 11	Q 10	Q 7	Q 8	Q 4	Q 8	Q 7	Q 4 & Q 8	Q 8 & Q 10	10.5
Atomic Structure	Q 4	Q 4 & Q 10		Q 4 & Q 11	Q 4 & Q 5	Q 4 & Q 10	Q 4 & Q 5	Q 4 & Q 11	Q 5 (a)	Q 5 & Q 10	Q 4 & Q 10	Q 4 & Q 10	Q 4 & Q 11	Q 5 & Q 10	Q 4 & Q 5	12.2
Chemical Equilibrium	Q 11	Q 9	Q 7	Q 7	Q 11	Q 9	Q 9	Q 11	Q 9	Q 7	Q 11	Q 12	Q 10	Q 11	Q 9	9.8
Electron Arrangement	Q 4 & 10	Q 4	Q 4 & 5	Q 5	Q 5	Q 5 (a)	Q 4	Q 4 & 5 (a)		Q 4 & 5	Q 4 & 5	Q 4	Q 5 (a)	Q 4 & 5 (a)	Q 4	7.4
Fuels & Thermochemistry	Q 6	Q 6	Q 6	Q 6	Q 6	Q 6	Q 6	Q 6	Q 6	Q 6	Q 6	Q 4 & Q 6	Q 6	Q 6	Q 6	10.1
Gas Laws, moles & Gas Properties	Q 4 & 10	Q 4	Q 11	Q 4 & Q 11	Q 4 & Q 10	Q 4	Q 4	Q 4	Q 4	Q 4	Q 4	Q 11	Q 10	Q 11	Q 11	8.1
Instrumentation & Chromatography	Q 4			Q 4	Q 10				Q 4						Q 10	1.8
Ionic & Covalent Bonding	Q 4 & 11	Q 11	Q 4 & Q 11		Q 4	Q 4 & Q 11	Q 4 & Q 10	Q 4	Q 4 & Q 11	Q 4 & Q 10	Q 11	Q 4 & Q 5	Q 4 & Q 5	Q 4	Q 4	9.2
Option: Atmospheric Chemistry	Q 4 & Q 11	Q 4	Q 4 & Q 11	Q 11	Q 4 & Q 11	Q 4 & Q 11	Q 4	Q 11	Q 4 & Q 11		Q 11	Q 4 & Q 11	Q 4 & Q 11	Q 4	Q 4 & Q 11	9.7
Option: Industrial Chemistry		Q 11	Q 4 & Q 11	Q 4			Q 4 & Q 11	Q 4 & Q 11		Q 4 Q 11	Q 4		Q 4	Q 11		6
Option: Materials & Polymers	Q 4 & Q 11	Q 4	Q 11	Q 4	Q 4			Q 4	Q 11	Q 11	Q 4	Q 4			Q 11	2
Option: Metals	Q 11	Q 11	Q 4	Q 11	Q 11	Q 4 & Q 11	Q 11		Q 4		Q 11	Q 11	Q 11	Q 4 & Q 11	Q 4	7.5
Organic Chemistry	Q 6, Q 8 & Q 10	Q 4, 6, 8 & 10	Q 6, 8	Q 6, 8	Q 2, 8 & 10	Q 4, 6, 8 & 10	Q 6, 8	Q 8, 10	Q 4, 8	Q 4, 9	Q 4, 8	Q 6, 9 & 11	Q 4, 8	Q 4, 9 & 10	Q 4, 7	14
Oxidation & Reduction	Q 4	Q 4	Q 4	Q 10		Q 10	Q 10	Q 4 & Q 10		Q 10	Q 10	Q 10	Q 10	Q 10	Q 10	7.7
Periodic Table	Q 5 & Q 11	Q 4, 5 & 11	Q 4		Q 4 & Q 11	Q 5	Q 11	Q 4 & Q 5	Q 5	Q 4 & Q 10		Q 4 & Q 5	Q 4 & Q 5	Q 4 & Q 5	Q 4, 5 & 10	10.3
Radioactivity	Q 4	Q 5		Q 10	Q 4	Q 4	Q 10	Q 4	Q 10	Q 11	Q 4	Q 4	Q 11	Q 4		5.4
Rates of Reaction	Q 9	Q 7		Q 4	Q 7	Q 9	Q 4 & Q 7	Q 4 & Q 9	Q 4 & Q 10	Q 4	Q 9	Q 4	Q 4 & Q 9	Q 7		9.1
Stoichiometry, Formulae & Equations	Q 4	Q 4 & Q 10	Q 4	Q 4	Q 4 & Q 10	Q 4 & Q 11	Q 4	Q 10	Q 4	Q 4		Q 4 & Q 11	Q 4	Q 4	Q 4, 10 & 11	8.1
Water & Water Analysis	Q 4	Q 4	Q 4	Q 9	Q 4	Q 4	Q 4	Q 4 & Q 7	Q 4 & Q 11	Q 4	Q 4 & Q 7	Q 4, 8 & 10	Q 7	Q 8	Q 8	6.5

#### Keep in mind:

- These predictions are only concerned with non - experiment questions, from Q 4 onwards. For experiment predictions, we have made a separate analysis chart.
- Although certain frequencies may appear much lower than others, there is quite a big difference in the amount of theory between each topic. For example, Organic Chemistry takes much longer to learn than Chemical Equilibrium.

#### Our Predictions:

- Question 4 to remain a mixture of many topics as always, with the parts from (a) to (k) roughly following to order the chapters of the course are supposed to be learned in.
- Question 5 will arise as a combination of Atomic Theory, Electron Arrangement, the Periodic Table and Ionic & Covalent Bonding. However because of topics most recently asked, Atomic Structure will likely take up a lot of the question.
- Question 6 will almost certainly be on Fuels & Thermochemistry, perhaps with some other Organic Chemistry being included.
- Question 7 will almost definitely be on Chemical Equilibrium, with a slight possibility of Rates of Reaction appearing.
- Question 8 is pretty much guaranteed to be on Organic Chemistry.
- Question 9 could well be whatever topic is not asked on Question 7, but Acids, Bases & PH calculations seems most likely.
- Question 10 should be some combination of our unasked predictions for Q 7 & Q 9, as well as some Stoichiometry & Gas Properties or maybe Organic Chemistry.
- Question 11 (c) will be on the optional topics as usual, and the rest of Q 11 could consist of almost anything else on the course.

#### KEY :

Long Question = 0.7

Short Question = 0.2

Part Question(s) & Short Question (SQ) = 1

