

Chemistry Topic for
each question on
EVERY PAST
PAPER A&AS
LEVEL so far 2017-
2023

The number next to
some questions like (4)
means it contains a 4
marker and the words
next it says what that
question contains like
chromatography
If a question shows x2
like (5x2) that would
mean there are two 5
marker questions in
that specific question
If you see '?' then i'm
not sure which topic
the question is

[AS and A Level -
Chemistry B \(Salters\) -
H033, H433](#)

^For 2016-2023 new
spec papers

[A Level Chemistry Past
Papers - The Exam
Formula](#)

^For 2009-2016 old
spec papers

[OCR A-Level Chemistry
Past Papers - Revision
Science](#)

^- For 2009-2016 old
spec papers with F332
inserts

[OCR Chemistry
Revision - THE
DIVERSE](#)

[COMPENDIUM OF
NATURAL SCIENCES](#)

^This is where you find
the practice papers

HO33 AS PAPERS

AS June 2023
Foundation of Chemistry

1. EL
2. DF
3. ES
4. EL
5. OZ
6. WM
7. DF
8. OZ
9. OZ
10. ES
11. ES
12. WM
13. EL
14. EL
15. EL
16. EL
17. EL(tricky one I
think)
18. DF
19. WM
20. EL
21. EL
22. OZ (5) Break
down of Ozone
23. DF (4) Bond
enthalpy
24. DF+WM (4) Mass
Spec

AS June 2023 Chemistry
in depth

1. EL (4) Standard
solution + (6)
Percentage
uncertainty +
moles

2. ES (4) Thermal
Decomp of
Hydrogen halides
3. WM + EL (5)
Bond angle + OZ
(6) HB, Pd-pd, Id-id
4. ES(4) Ideal gas eq
+ OZ

AS June 2022
Foundation of Chemistry

1. EL
2. EL
3. EL
4. DF
5. ES
6. ES
7. OZ
8. OZ
9. WM
10. ES
11. EL
12. DF
13. EL
14. WM
15. ES
16. DF
17. DF
18. WM
19. DF
20. DF
21. Sec B - DF + OZ
(5) intermolec
22. OZ (4) het/hom
fission
23. ES
24. ES

AS June 2022 Chemistry
in depth

1. EL (4)
2. DF (4 Burning
catalyst) + OZ
kinda
3. WM (6) TLC
chromato
4. DF (6)

AS Nov 2021

Foundations of Chemistry

1. EL
2. EL
3. ES
4. WM
5. ES
6. DF
7. DF
8. ES
9. ES
10. DF
11. OZ
12. WM
13. WM
14. EL
15. ES
16. DF
17. DF
18. OZ
19. OZ ppm qu
20. WM
21. SecB - EL (4)
22. WM
23. EL (5)
24. DF

AS Nov 2021 Chemistry
in depth

1. DF (E/Z) and 3D
shape
2. EL (4) + ES
3. OZ (6) intermolec
+ DF
(Mechanism)
4. OZ + ES (6)

AS NOV 2020

Foundation of Chemistry

1. EL
2. DF
3. ES
4. EL
5. EL
6. EL
7. EL
8. DF
9. DF
10. WM
11. ES

12. OZ

13. OZ UV

14. WM
15. WM
16. WM
17. EL
18. EL
19. EL
20. EL
21. SecB - OZ (4)
22. DF + WM (4)
mass spec
23. ES (5) + EL (5)
24. ES + DF

AS Nov 2020 Chemistry
in depth

1. DF
2. EL (4)
3. WM (4+6)
4. DF (4+6 enth
neutrali)

AS June 2019

Foundation of Chemistry

1. EL
2. EL
3. EL
4. DF
5. DF
6. WM
7. DF
8. ES
9. DF
10. EL
11. ES
12. ES
13. ES
14. OZ
15. DF
16. DF
17. DF
18. WM
19. OZ
20. ES
21. SecB - ES + DF
22. EL (4)
23. DF (5)
24. WM

AS June 2019

Chemistry in depth

1. DF - $pV=nRT$ (4)
+ Crack
hydrocarbo Prac
(4) + Biofuels (6)
+ WM
2. ES (4)
3. EL
4. OZ (6)

AS June 2018

Foundation of Chemistry

1. EL
2. DF
3. ES
4. OZ
5. OZ
6. WM
7. WM
8. DF
9. EL
10. ES
11. OZ
12. OZ
13. EL
14. EL
15. EL
16. DF
17. WM
18. OZ
19. EL
20. ES
21. WM
22. EL (4)
23. DF
24. OZ + ES (5)

AS June 2018 Chemistry
in depth

1. EL (6)
2. DF + WM (6)
IR+Mass spec
3. OZ (4)
4. ES

AS June 2017

Foundation of Chemistry

1. DF
2. EL
3. ES

4. ES	20. DF	5. DF
5. WM	21. EL (4)	6. EL
6. WM	22. WM	7. DF
7. DF	23. ES	8. WM
8. ES	24. OZ (4 + 5)	9. DF
9. OZ	AS June 2016 Chemistry	10. ES
10. OZ	in depth	11. ES
11. WM	1. DF	12. OZ
12. WM	2. ES	13. WM
13. WM	3. WM (4 + 6)	14. DF
14. DF	4. OZ (4) + WM (6)	15. EL
15. EL	IR + Mass spec	16. EL
16. DF	AS Sample Foundations	17. DF
17. WM	of chemistry	18. EL
18. OZ	1. DF	19. EL
19. EL	2. DF	20. OZ
20. OZ	3. OZ	21. WM + OZ (4)
21. WM	4. OZ	destr of ozone
22. EL	5. WM	22. WM (5) recrystal
23. DF (4)	6. ES	23. EL
24. OZ + EL (4)	7. DF	24. ES
AS June 2017 Chemistry	8. EL	AS Practice Paper
in depth	9. EL	Chemistry in Depth
1. DF + OZ (6)	10. ES	1. DF (6) enthalpy
2. WM	11. ES	combustion experi
3. ES	12. DF	+ EL
4. EL (4 + 6)	13. DF	2. EL (4) draw+exp
AS June 2016	14. WM	thermal decomp +
Foundation of Chemistry	15. WM	(4) 1st ionisat
1. EL	16. DF	ener
2. EL	17. DF	3. ES (4) graph conc
3. EL	18. ES	+ (6) ozone
4. ES	19. SecB - EL	catalyst
5. OZ	20. DF (4)	4. WM (4) alco ->
6. OZ	21. OZ (4x3 + 5)	ester table + (5)
7. DF(Ideal gas qu)	22. OZ (4)	IR + MS
8. ES	AS Sample Chemistry in	
9. OZ	depth	
10. ES	1. EL + DF (4)	
11. WM	2. DF (6)	
12. DF	3. OZ + ES (4)	
13. EL	4. WM (5+6)	
14. ES	AS Practice Paper	
15. OZ	Foundation of Chem	
16. DF	1. WM	
17. WM	2. EL	
18. EL	3. DF	
19. EL	4. DF	

H433 A LEVEL PAPERS

A LEVEL June 2023
Fundamental of chemistry

1. EL
2. EL
3. OZ
4. WM
5. ES
6. DM
7. O
8. CD
9. EL
10. CI
11. DF
12. DF
13. DF
14. DM
15. WM
16. WM
17. WM
18. DF
19. O
20. EL
21. ES
22. CI
23. PL
24. O
25. EL
26. DF
27. O
28. O
29. CD
30. OZ
31. SecB. EI
32. DF (4)
33. O (4x2)
34. DM (6) redox titr

35. PL (6) mechanism
enzyme-cata +
OZ

A LEVEL June 2023

Scientific literacy

1. ES + DF (4)
2. PL (6)
NMR+Mass
3. CI (4) K_c +O+ES
4. WM+PL+OZ(6)
bondenthalpy/polarise + CD
5. DF + EL

A LEVEL June 2023

Practical Skills

1. OZ
2. EL + DM (6)
Ligand,
complexes
3. WM+OZ+CD (6)
Benzene + (4)
Mechanism
4. CI (4x2) k with
units, rate

A LEVEL June 2022

Fundamental of chemistry

1. EL
2. EL
3. EL
4. EL
5. ES
6. O
7. O
8. CI
9. DM
10. CI
11. WM (Looked at
mark scheme you
can't answer this
qu)
12. EL
13. EL
14. OZ
15. WM
16. PL

17. CD
18. CD
19. O
20. PL
21. O
22. O
23. O
24. EL
25. CD
26. EL
27. EL
28. CD
29. DM
30. CI
31. B. EL+ES+DF(4)
Ideal gas eq
32. OZ (4) + DF
33. OZ + O (5)
34. ES (4) + CI (6)
equili + K_c (4)
35. CD (6)

A LEVEL June 2022

Scientific literacy

1. EL (5)? + ES
2. DF
3. CI (6) calc k from
data + mech + (4)
arrhenius plot
4. PL
5. O (6) article

A LEVEL June 2022

Practical Skills

1. WM+OZ (6)
hydrolysis
2. EL+ DF (6)
3. DM (4)
4. Insert - DM (4)

A LEVEL NOV 2021

Fundamental of chemistry

1. EL
2. EL
3. EL
4. DF
5. DF
6. O

7. ES	A LEVEL NOV 2020	A LEVEL NOV 2020
8. EL	Fundamental of	Practical Skills
9. EL?	chemistry	1. EL (6) group 2 carbonates + O (4)
10. DF	1. EL	2. WM + PL (4)
11. DF	2. EL	3. DF (combustion)
12. PL	3. EL	4. Insert - PL (6 titre) + Cl
13. EL	4. ES	A LEVEL June 2019
14. EL	5. WM	Fundamental of
15. WM	6. DF	Chemistry
16. WM	7. O	1. EL
17. ES	8. DM	2. EL
18. PL	9. CD	3. WM
19. O	10. EL	4. WM
20. EL	11. OZ	5. DF
21. CI	12. OZ	6. ES/WM
22. PL	13. WM	7. EL
23. CI	14. DM	8. DM
24. OZ	15. PL	9. ES
25. EL	16. EL	10. OZ
26. ES	17. O	11. OZ
27. EL	18. PL	12. CI
28. WM	19. EL?	13. WM
29. CD	20. DF	14. O
30. WM	21. CI	15. PL
31. CI + EL (5) % by mass + O	22. WM	16. O
32. OZ (6) imforces	23. PL	17. DM
33. EL + DM (4) formula of complex + 6 using solid and colorimetry)	24. PL	18. O
34. PL (4)	25. O	19. EL
35. CI	26. DF	20. EL
A LEVEL NOV 2021	27. DF	21. DF
Scientific literacy	28. WM	22. O
1. CD + DF (5)	29. CD	23. CD
2. DM (4)	30. CD	24. ES
3. CD + PL (6)	31. DM +CI (4x2)	25. O
4. DF (4x2) + O (4) + CI (6)	32. ES (4)	26. EL
5. EL + CI IDK	33. DF + CD (6)	27. ES
A LEVEL NOV 2021	34. CD (4) solub of dyes + DM (6) method for dyes colori	28. OZ
Practical Skills	35. ES + O	29. PL
1. DF (4) + WM (6)	A LEVEL NOV 2020	30. PL
2. PL	Scientific literacy	31. ES+CI (6)
3. ES (4) + O (4)	1. PL (4)	32. PL (6) enzyme inhibitor
4. Insert - O (4+6)	2. DM (4)	33. OZ + DF
	3. O (4)	34. EL + ES
	4. DF+WM+PL(6)	35. PL + WM
	5. DM (6)	

A LEVEL June 2019

Scientific literacy

1. PL
2. EL(4) + DF(4)
Ideal gas + O (6)
3. DM (4) + EL
4. OZ + CI (4)
5. Insert- OZ (6) +
DF (4)

A LEVEL June 2019

Practical Skills

1. PL + OZ
2. CD + PL (6)
NMR/IR
3. O
4. Insert (4) + DM (6)

A LEVEL June 2018

Fundamental of
Chemistry

1. EL
2. EL
3. EL
4. DF
5. CI
6. DF
7. ES
8. ES
9. ES
10. WM
11. OZ
12. DM
13. DM
14. EL
15. EL
16. CI
17. WM IDK weird qu
18. EL
19. WM
20. PL
21. OZ
22. ES
23. DM
24. CI
25. WM
26. O
27. ES
28. PL

29. CD

30. CD

31. DF+PL(6)+CD(4)

32. PL (4 + 6
hydrolysis)

33. PL

34. OZ

35. DM

36. O + WM + CI (4)

A LEVEL June 2018

Scientific literacy

1. EL
2. PL (4) + DF + CD
(6 comparing
cyclohexene to
benzene)
3. PL + CI (4 + 6?)
4. O
5. PL (4)

A LEVEL June 2018

Practical Skills

1. CD (4)
2. DM (6+5)
3. ES + DM (6)
method using
colorimeter or
visible
spectrophotomete
r + EL
4. Insert - WM (4)

A LEVEL June 2017

Fundamental of

Chemistry

1. EL
2. EL
3. EL
4. PL
5. DF
6. CI nitrate
7. CI/ES
8. PL
9. PL
10. DM
11. DM
12. CD
13. EL
14. DF
15. OZ

16. OZ

17. WM

18. WM

19. CI

20. PL

21. OZ/ES

22. OZ

23. EL

24. EL?

25. O

26. DF

27. O

28. DM

29. DM

30. PL

31. ES + OZ

32. EL (6 light) + DF

33. CI + O

34. CD (4x2)

35. EL(6 hysalt)+ O(4)

A LEVEL June 2017

Scientific literacy

1. PL + O (4)
2. WM (4) + PL
3. PL (6)
4. ES (4+6) + DM
5. CD insert (6)

A LEVEL June 2017

Practical Skills

1. PL (6) paper
chromato
2. CI (5 rate of
reaction + 6graph)
3. DF (4x2) + ES idk
4. Insert - ES (4 + 6
titre)

A LEVEL June 2016

Foundations of chemistry
modified These papers
don't exist only old spec

A LEVEL Sample

Fundamental of Chem

1. WM
2. DM
3. CD
4. OZ
5. WM

6. EL	tests+ colour	26. DM
7. EL	change + EL	27. CD
8. EL		28. OZ
9. EL	A level Sample Practical	29. CD
10. EL/OZ	Skills	30. CD
11. EL	1. WM(4) recrystal +	31. EL
12. ES	PL	32. EL (6) emission
13. ES	2. EL(6) experiment	33. O (4) hydration
14. CI	thermalstabil of	enth cycle calc
15. WM	carbonate + O +	34. WM + CD (5) dye
16. PL	DF	is yellow benzene
17. PL	3. DF	is colourless
18. PL	4. DM(4) %of iron in	35. PL (6) enzyme +
19. PL	paper clip +	substrate rate
20. PL	(6)colorimetry with	determin
21. PL	calibration	A Level Practice Paper
22. O	curve&conc of	Set 1
23. O	manganese in	Scientific Literacy
24. DF	paper clip sol	1. DF + PL + OZ (4)
25. OZ		IMB
26. O	A Level Practice paper	2. O
27. DM	set 1	3. DM (6)
28. DM	Fundamental of Chem	manganate
29. OZ	1. ES	titration + (5)
30. O	2. EL	mass calc
31. DM + EL(5)	3. WM	4. CI (4) equ yield
%purity + DF(4)	4. OZ	+(4) Kc calc qu
hetero model	5. DF	5. CD + PL + O (6)
32. DF + PL(6) NMR	6. DF	def of soap and
33. O(5) mass calc +	7. ES	more soluble in
(4) Ka + CI(4) Kc	8. PL	water
34. WM(6) hydroxyl	9. PL	A level Practice Paper
+CD(4)	10. DM	Set 1 Practical skills
Mechanism	11. DM	1. WM + PL (6)
35. ES + DM	12. DF	NMR/IR
A level Sample Scientific	13. ES	2. DM (4) conc of O2
Literacy	14. ES	+ O
1. CD (5 azo dye) +	15. DM	3. OZ (6) rate of
O(4)solubility of	16. CD	hydro + CI
dye + CI(5)	17. DF	4. Insert - DM (5)
arrenius	18. EL	graph complex ion
2. O + DM	19. DF	+ (4) chem equi of
3. DF + WM + PL(6)	20. DF	ppt
HNMR+IR	21. ES/CI	
4. DM + CI + ES	22. OZ	
5. DF + PL(6)	23. CI	
lock&key theory +	24. CI	
CD(4) chemical	25. CI	