

Year 9 Experiments		Risk	Link
1	Teachers' guide Expt 1,2; p 147 (9Eb1 , 9Eb/2)	C, H ₂ , SB	1
2	Teachers' guide, Expt 3,4; p 147 (Demo)	C, FH, H ₂ , Δ	2
3	Teacher's guide, Expt 1,2; p 150 (Demo)	C	3
4	Teacher's guide, Expt 1, p 153 (9Ec/1 , 9Ec/2)	C, Δ	4
5	Teacher's guide, Expt 2,3; p 167-168	C, FH, H ₂ , O, Δ	5
6	Teacher's guide, Expt 3, p 168 (9Fa/1-2)	O, H ₂	6
7	Teacher's guide, Expt 1, p 171 (9Fb/1)	C, O, H ₂	7
8	Teacher's guide, Expt 2, p 174 (9Fc/1-2)	T	8
9	Teacher's guide, Expt 1,2; p 177, 178 (9Fd/1 , 9Fd/2)	C, H ₂ , O	9
10	Teacher's guide, Expt 2, p 192 (9Ga/1)	C	10
11	Teacher's guide, Expt 1,2; p 195 (9Gb/1)	C, O	11
12	Teacher's guide, Expt 3, p 196 (9Gb/3)	C	12
13	Teacher's guide, Expt 4, p 196 (9Gb/2)	C, O	13
14	Teacher's guide, Expt 3, p 213 (9Ha/1)	O	14
15	Teacher's guide, Expt 3, 4; p 213 (9Ha/2)	O	15
16	Teacher's guide, Expt 1, p 219 (9Hc/1)	C, IR	16
17	Teacher's guide, Expt 5, p 220 (Demo), 7Fe/2 Year 7 file	F	17
18	Teacher's guide, Expt 1, p 111 (8Ee/1)	O, UV, Δ	18
19	Teacher's guide, Expt 2, p 219 (Demo)	C	19
20	Teacher's guide, Expt 1,2,3; p 248-251 (CPa/1 , CPa/2 , CPa/3)	Δ, SB	20
21	Teacher's guide, Expt 1,2,3; p 248-251 (CPa/1 , CPa/2 , CPa/3)	Δ, SB	21
22	Teacher's guide, Expt 1,2,3; p 248-251 (CPa/1 , CPa/2 , CPa/3)	Δ, SB	22
23	Teacher's guide, Expt 1,2,3; p 252-253 (CPb/2 , CPb/3 , CPb/4)	C, H, Δ	23
24	Teacher's guide, Expt 1,2,3; p 252-253 (CPb/2 , CPb/3 , CPb/4)	C, H, Δ	24
25	Teacher's guide, Expt 1,2,3; p 252-253 (CPb/2 , CPb/3 , CPb/4)	C, H, Δ	25

Course used: Exploring Science 9, Levesley, Longman

Year 10 Experiments		Risk	Link
1	Experiment 1.1, 1.2, 1.3 (Demo); p 7-7	C, H, NH ₃	1
2	Experiment 1.4, 1.5, 1.6; p 7-7 (Data Harvest Software)	H, Δ	2
3	Experiment 1.7, 1.8; p 12	H	3
4	Experiment 2.1 (Demo), 2.2, 2.3; p 17-18	SO ₂ , Δ	4
5	Experiment 2.4, 2.5; p 19 (Demo)	F, Δ	5
6	Experiment 2.6, p 20		6
7	Experiment 2.7, p 23	F, H, Δ	7
8	Experiment 4.1, p 44	O, Δ	8
9	Experiment 4.2 (Demo), 4.3; p 46-47	C, FH, SO ₂ , UV, Δ	9
10	Experiment 5.1, 5.2, 5.3; p 50-51 (Demo)	C, HF, FH, Δ	10
11	Experiment 5.4, 5.5, 5.6; p 54-55 (Demo 5.7, 5.8, 5.9)	C, H ₂	11
12	Experiment 6.1, 6.2 (Demo), 6.3; p 62-63	C, FH, IR, T, Δ	12
13	Experiment 7.1 (Demo), 7.2; p 80-81	C, FH, H ₂ , Δ	13
14	Experiment 7.3, 7.4, 7.5 (Demo); p 82-83	H, Δ	14
15	Experiment 7.6, 7.7, 7.8; p 84-85	IR	15
16	Experiment 8.1 (Demo), 8.2, 8.3; p 89-92	FH, SO ₂ , T, Δ	16
17	Experiment 8.4, 8.5; p 93	HF, IR	17
18	Experiment 9.1, p 100	Br ₂ , Cl ₂ , FH, Δ	18
19	Experiment 9.2, 9.3 (Demo); p 101-102	C, H, HF	19
20	Experiment 9.4, 9.5 (Demo), 9.6; p 104, 110	Br ₂ , Cl ₂ , H ₂	20
21	Experiment 9.7, 9.8, p 112, 114	HF	21
22	Experiment 10.1, 10.2; p 119	Δ	22
23	Experiment 10.3, p 122	Cl ₂	23
24	Experiment 11.1, p 128	C, Δ	24
25	Investigation 11.5, p 134	SB, Δ	25
26	Experiment 12.1, 12.2; p 143-144	C, Δ	26
27	Experiment 12.3, 12.4; p 146-147	C, H, IR, Δ	27
28	Experiment 12.5, 12.6; p 148, 149	H, IR, Δ	28
29	Experiment 12.8, 12.9; p 150, 152	C, H, IR, T	29
30	Experiment 12.10, p 153	H, IR, Δ	30

Year 11 Experiments	Risk	Link
1 Experiment 13.1, 13.2; p 163 (Demo)	H, HF, IR, SB, Δ	1
2 Experiment 13.3, 13.5 (Demo); p 167-70	FH, H, Δ	2
3 Experiment 14.1, 14.2, 14.3, 14.4; p 182-183 (Demo)	C, FH, HF IR, Δ	3
4 Experiment 15.1, 15.2; p 187-189 (Demo)	F, SO ₂ , Δ	4
5 Experiment 15.3 (Demo), 15.4 (Demo), 15.5; p 190-191	C, H, IR, O	5
6 Experiment 15.6, p 197	F, H, Δ	6
7 Experiment 16.1, 16.3; p 200-201	IR	7
8 Experiment 16.4, 16.5 (Demo); p 202-203	IR	8
9 Experiment 16.6, p 204	IR	9
10 Experiment 16.7, 16.8 (Demo); p 206-208	H, IR, SO ₂ ,	10
11 Experiment 17.1, 17.2, 17.3; p 214-215 (Demo)	IR	11
12 Experiment 18.1,18.2,18.3,18.4; p 221	H, HF, IR, Δ	12
13 Experiment 19. 1, 19.2, 19.3; p 232-233 (Demo)	C, H, NH ₃	13
14 Experiment 19.4, 19.5, 19.6, 20.1, 20.2 (Demo); p 237-8,244	C, FH, H, IR, NH ₃	14 14a
15 Experiment 21.1, 22.1, 22.2; p 266, 276-277 (Demo)	Cl ₂ , FH, I ₂ , SO ₂	15 15a
16 Experiment 24.9, p 309 (Demo)	C, Δ	16

Course used: Chemistry for You, Lawrie Ryan, Nelson Thornes

Year 12 Practicals		Risk	Link
1	9701_w01_qp3	C, F, H, N, O, T, Δ	1
2	9701_s02_qp3	C, F, H, N, O, T, Δ	2
3	9701_w02_qp3	C, F, H, N, O, T, Δ	3
4	9701_s03_qp3	C, F, H, N, O, T, Δ	4
5	9701_w03_qp3	C, F, H, N, O, T, Δ	5
6	9701_s04_qp3	C, F, H, N, O, T, Δ	6
7	9701_w04_qp3	C, F, H, N, O, T, Δ	7
8	9701_s05_qp3	C, F, H, N, O, T, Δ	8
9	9701_w05_qp3	C, F, H, N, O, T, Δ	9
10	9701_s06_qp3	C, F, H, N, O, T, Δ	10
11	9701_w06_qp3	C, F, H, N, O, T, Δ	11
12	9701_s07_qp3	C, F, H, N, O, T, Δ	12
13	9701_w07_qp_3.1	C, F, H, N, O, T, Δ	13
14	9701_s08_qp3	C, F, H, N, O, T, Δ	14
15	9701_w08_qp_3.1	C, F, H, N, O, T, Δ	15
16	9701_s09_qp_3.1	C, F, H, N, O, T, Δ	16
17	9701_w09_qp_3.1	C, F, H, N, O, T, Δ	17
18	9701_s10_qp_3.1	C, F, H, N, O, T, Δ	18
19	9701_w10_qp_3.1	C, F, H, N, O, T, Δ	19
20	9701_s11_qp_3.1	C, F, H, N, O, T, Δ	20

Each A Level practical has its own hazards. It is best to check out each link in order to be able to assess each experiment accurately. All have been given the same risk code due to there being a standard set of chemicals used in every practical. Additional, hazards may well exist.

Notes:

Year 12 practicals are performed only by one or two students.

Please view 9701_y12_sy.pdf section 3:70

Description of the preparation of each chemical is given in every practical examination.

Other practicals from *Chemistry in Context* may be used.

Course used: AS and A Level Chemistry, Radcliff etc., Cambridge

Safety Abbreviations

Safety glasses and laboratory coats are to be worn during all experiments

Students must wash hands after all experiments

Br ₂	bromine evolved
C	corrosive
Cl ₂	chlorine evolved
Δ	involves heating
F	flammable
FH	fume hood
H	harmful
H ₂	hydrogen evolved
HF	highly flammable
I ₂	iodine evolved
IR	irritant
N	dangerous for the environment
NH ₃	ammonia
O	oxidising agent
SB	suck back
SO ₂	sulphur dioxide evolved
T	toxic
UV	ultra violet light

Websites

www.opsi.gov.uk/SI/si2002/20022677.htm
www.hse.gov.uk/pubns/indg136.pdf
www.chemsoc.org/networks/learnnet/Safety.htm
www.ncbe.reading.ac.uk/NCBE/SAFETY/menu.html
www.microbiologyonline.org.uk/safety.html
www.ase.org.uk

Please refer to CLEAPSS for safety references etc.

[CLEAPSS](#)

N.B. Links to practicals will only work in the Excel version.

Cleapps is available though.