

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

**Course used:** Exploring Science 9, Levesley, Longman

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

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

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

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

**Notes:**

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

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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

$\text{Br}_2$  bromine evolved

C corrosive

$\text{Cl}_2$  chlorine evolved

$\Delta$  involves heating

F flammable

FH fume hood

H harmful

$\text{H}_2$  hydrogen evolved

HF highly flammable

$\text{I}_2$  iodine evolved

IR irritant

N dangerous for the environment

$\text{NH}_3$  ammonia

O oxidising agent

SB suck back

$\text{SO}_2$  sulphur dioxide evolved

T toxic

UV ultra violet light

### Websites

[www.opsi.gov.uk/SI/si2002/20022677.htm](http://www.opsi.gov.uk/SI/si2002/20022677.htm)

[www.hse.gov.uk/pubns/indg136.pdf](http://www.hse.gov.uk/pubns/indg136.pdf)

[www.chemsoc.org/networks/learnnet/Safety.htm](http://www.chemsoc.org/networks/learnnet/Safety.htm)

[www.ncbe.reading.ac.uk/NCBE/SAFETY/menu.html](http://www.ncbe.reading.ac.uk/NCBE/SAFETY/menu.html)

[www.microbiologyonline.org.uk/safety.html](http://www.microbiologyonline.org.uk/safety.html)

[www.ase.org.uk](http://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.

Cleapss is available though.