



JABchem



Not to be shared without the copyright holder's permission

Question Bank

HIGHER

Chemistry

**Self-Evaluation
Question Bank**

Past Paper Question Bank

Unit 1.1 Periodicity

Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015
1																
2a																
2b																
2c																
3	L1a	mc9		mc10	L1a	mc13	L2b		mc15 L9a	mc15	L1	mc1	mc12 mc13 L1a	mc15	L1a	L1a
4	mc8	L12a L12b			L9a L9b		L2a	L1b				mc11	L1b	mc12	L1c	L1b(ii)
5	L13a L13b		L1a	mc9	mc11	mc9	mc3 mc13	mc7	mc11	mc11 L1b	mc10	mc32 L2a(ii)		L4a(i)	mc3	mc9
6			L1b L1c				mc12	L1c	mc9	mc10	L11a(i)	L2a(i)		L4a(ii)	mc13	mc8 mc10
7	L7a				mc9	mc10		L1a	mc10			L2b		mc11		
8		mc8								L1a					mc12	

Past Paper Question Bank

Unit 1.1 Periodicity

Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022					revH 2012	revH 2013	revH 2014	revH 2015
1																
2a		mc1														
2b																
2c																
3	mc1 L1a		mc4 L1a		L3								mc2 mc3 L1a(i)	mc2	L1a L1c(iii)	mc1 L1a
4	L1b(ii)	L2a(i) L2a(ii)		L2a	L2c L2d								L1a(ii)	mc3	L1b	L1b(ii)
5	mc2		L1b(ii) L1b(iii)	mc4	L12b(i) L12b(ii)									L1a(i)		mc3
6			L1b(i)		L2a(i) L2a(ii)									L1a(ii)	mc1	mc2 mc4
7	mc3	mc3		L1a(i)										mc1		
8				L1a(ii)									L1b		mc2	

Past Paper Question Bank

Unit 1.2a Types of Chemical Bond

Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015
9																L1b(i)
10a							L2c			mc12	mc11	mc12	mc10			
10b	mc9															
11																
12a				mc8				mc8		mc9					mc14	
12b																
13	mc1 mc10	mc11 L11b		mc1 mc13	mc1 L1b	mc11 L6b(i)	mc2 L1	mc2 mc10 mc11	L1		mc14	mc13		mc1 mc14	L1b	mc2

Higher Traffic Lights		Past Paper Question Bank Unit 1.2a Types of Chemical Bond												Copyright JABchem			
Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022						revH 2012	revH 2013	revH 2014	revH 2015
9	L1b(i)																L1b(i)
10a			mc1	L2b(i)	mc1 L12b(i)									mc4 L7b L7c			
10b		mc2												mc1			
11																	
12a		mc3														mc3	
12b																	
13		L3a		L2c(i)											mc4 L7b(i)		

Past Paper Question Bank

Unit 1.2b Intermolecular Forces

Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015
14																
15		mc10														
16			L7a	L12												
17					mc10					L1c	mc9			mc13		L1b(iii)
18 20		L5b									L7a		L6b(ii)			
19			mc8		mc12			mc12	mc14	mc16	mc13				mc15	
21 22c										mc14						
22a 22b	L16a		L7b	mc12 L12	L14a(ii)	L9a	L11c	L13a	mc13	mc13	mc12	L6b L7c			mc16 L4a L12d(ii)	L13a
23 24							mc14						mc11	mc16 L10b		
25																
26																
27			mc7													
28				mc11				mc9					mc14	L6a		
29																

Higher Traffic Lights		Past Paper Question Bank Unit 1.2b Intermolecular Forces												Copyright JABchem			
Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022						revH 2012	revH 2013	revH 2014	revH 2015
14																	
15	mc4																
16																	
17	L1b(iii)		L1c	L1b											mc5	mc4	1b(iii)
18 20			L6c	L4c	mc16									L6b			
19				L12b(ii)	mc2											mc5	
21 22c					L8a(ii)												
22a 22b	mc5 L12c(i)	L12a(i)			L6a(i)A L6b(ii)B											L3b L7c(iii)	L10d(i)
23 24														mc6	mc6 L4d L6b		
25														L4a L15			
26																	
27																	
28		L5c(ii)												mc7 L10a	mc14 L3a	mc6	
29	L6b	mc6	mc2 L5c(ii)		L4d(i)											mc14	

Higher Traffic Lights		Past Paper Question Bank Unit 1.3 Oxidising and Reducing Agents										Copyright JABchem				
Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015
30 31 32			mc27 L15a(ii)		L12b	mc38 L6a(ii)	mc37	mc28	L17a	mc2 L18a						L13b(i)
33 35a				mc37	mc38				mc38		mc39			L16a		
34 35b															mc37	
36 37													mc3			
38 42 43																
39a																
39b																
39c																
40																
41																
44	mc27 L15a			L8a(iii)	mc37		L10a	mc37	mc37		L16b(ii)	mc37	mc37	L17b		
45		L14a L14b	L15a(i)	mc36		L13a(i)	L15a	L15a		mc37		mc38	L5b			

Higher Traffic Lights		Past Paper Question Bank Unit 1.3 Oxidising and Reducing Agents												Copyright JABchem			
Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022						revH 2012	revH 2013	revH 2014	revH 2015
30 31 32	L12a(ii)	L11b(ii)		L11b	L12d(i)									mc8			L10b(ii)
33 35a															L10a		
34 35b					mc3											mc8	
36 37														mc5			
38 42 43	mc20	mc19	mc13	mc18										L1a(iii) L13a	mc7	mc7	mc6
39a																	
39b																	
39c																	
40			L9b(i)														L10a
41																	
44		mc18	L6a(iii)B	mc19										mc9	L2b	L11a	
45					mc4									L5b			

Higher Traffic Lights		Past Paper Question Bank											Copyright JABchem				
Unit 2.1 Systematic Carbon Chemistry																	
Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015	
46																	
47		mc18				L16a L16b	L7c(i)	L12a(i) L12a(ii) L13b(i)	mc22	L9b	mc21 L8a(ii)		mc25		L11b(i)	mc23	
48	L16a(ii)																
49	L1b L12b	L8a(i) L11a(i) L16b		mc18 L1a							L13a(i)	L4a	mc21 L6a	L1b L18a	L2b(i)		
50 51		mc17		mc19			mc20			mc21		mc19		mc20			
52 53										mc3							

Higher Traffic Lights		Past Paper Question Bank Unit 2.1 Systematic Carbon Chemistry												Copyright JABchem			
Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022						revH 2012	revH 2013	revH 2014	revH 2015
46																	
47		mc7 L8b(i)		L7b(ii) L7c(i)	L16b(ii)A									mc10	L11c(i)		
48	mc12																
49					L6a(ii)									L6a	L11b(iii) L13a		
50 51				mc8											mc8		
52 53		L12a(ii) L12a(iii)												mc16			

Higher Traffic Lights		Past Paper Question Bank 2.2 Alcohols										Copyright JABchem				
Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015
54									L13a				mc22		L12c	L9a(i)
55a 56a					L13a											
55b 56b					mc18								L11a(ii) L11a(ii)			
57		mc19			L13b		mc21			L9a	mc20	L6a				mc20
58									L15a(i)							
59									L15b					L9a		L9a(ii)

Higher Traffic Lights		Past Paper Question Bank Unit 2.3 Carboxylic Acids										Copyright JABchem				
Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015
60						mc21				L10b			mc22			L9a(i)
61a 62a				L8a(iv)									L9b	mc21		
61b 62b																
63	L9b(i)				mc20			mc22								
64																

Higher Traffic Lights		Past Paper Question Bank 2.2 Alcohols												Copyright JABchem			
Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022						revH 2012	revH 2013	revH 2014	revH 2015
54				mc6 L8c(iii)										mc17		mc9 L7b	
55a 56a																	
55b 56b	L4d(ii)A		mc7											L11a(i) L11a(ii)			mc8 L4d(ii)
57	mc15 L4d(ii)B	L7b(iv)	L6a(i)		mc5 L6b(i)												
58				L9c													
59			mc5	L9b										L8a L8b		L10a	L3a

Higher Traffic Lights		Past Paper Question Bank Unit 2.3 Carboxylic Acids												Copyright JABchem			
Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022						revH 2012	revH 2013	revH 2014	revH 2015
60	L11a	L7b(iii)		mc6										mc17	L6a(i)		
61a 62a		L5b(ii)			mc7									L14a	mc9		
61b 62b				mc7	mc9 L7b(iii)												
63															L6a(iii)		
64																	

Past Paper Question Bank

Unit 2.4 Esters, Fats & Oils

Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015
65						mc21				L5b(i)						
66 67	mc12 L9a		mc16	L6b	L14a(i)		mc19			L3b(ii)	mc19	mc21	mc23 L10b	mc22	L9a(iii)	
68	mc14 L16a(i)		L5b(i) L5b(ii)				mc24			L3b(i)		mc25			mc23	
69 70 71				mc27							L15b(i)			mc26 L11a		
72 73	L14a(i)											mc24				
74 75		mc20						L8a								
76		L17b		mc26		L1a	L5a(i) L5a(ii)	mc26	L2a	mc29	mc29			L7b(ii)	L12d(i)	L4b L4c
77 78	mc19				mc27	L1b		L14a	L2b		mc28	L9a		mc29		mc29
79 80												L9b	L9a			
81									L2c							L4a

Higher Traffic Lights		Past Paper Question Bank Unit 2.4 Esters, Fats & Oils												Copyright JABchem			
Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022						revH 2012	revH 2013	revH 2014	revH 2015
65																	
66 67	mc14 L11b L11c	L7c(i) L7c(ii)	mc10	L3b L3c(i)	L4d(ii)									mc11 L10b(i)	mc10	L6a(iii)	L2b
68														L4c		mc10	
69 70 71		L7c(iv)		L4e(i)											mc11	L6a(ii)	
72 73				L6a(i)													
74 75	mc9		L4a(i)	L6a(ii)													mc16
76		L5a	mc19	L4b(i)	L4c									mc12	L1b L4b(ii)	mc11 L7c(i)	mc13
77 78		L5b(i) L5b(ii)	mc8											mc13	mc12		
79 80	mc8																mc12
81																	

Higher Traffic Lights		Past Paper Question Bank Unit 2.5 Soaps, Detergents & Emulsions										Copyright JABchem				
Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015
82		L17a										L9c				
83													L9c			
84 85																
86 87																
88																

Higher Traffic Lights		Past Paper Question Bank Unit 2.6 Proteins										Copyright JABchem				
Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015
89												mc30				
90		mc24			mc28		mc30	mc27 mc28		L5a(i)		mc27 L7b		L10a(i)		
91 92					L7a			L9b	mc28		mc30		L8a	10a(ii)	L12b	
93 94								L9a(i)					mc29 L8c	mc30		
95 96				L15a		L15a(ii)	mc25			L5a(ii)			L8b			L5a L5b
97	mc18		mc22					L9c								
98	L11c		L9a(ii)	mc28	L7b L7c	mc28 mc29	L6b		mc27	mc30					L2c(i)	

Higher Traffic Lights		Past Paper Question Bank Unit 2.5 Soaps, Detergents & Emulsions											Copyright JABchem			
Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022					revH 2012	revH 2013	revH 2014	revH 2015
82	mc7	mc9	L4a(ii) L4b(ii)	L9d(iii)B	L12a(ii)A								mc12 L14b(i)	mc18		mc9
83			L9a(i) L9a(ii)		L12a(i) L12a(ii)B								L14b(ii)		mc16	L6a
84 85																
86 87					L12a(iii)									L4b(i)		
88		mc10													mc17	

Higher Traffic Lights		Past Paper Question Bank Unit 2.6 Proteins											Copyright JABchem			
Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022					revH 2012	revH 2013	revH 2014	revH 2015
89					L4a(i)											
90					mc12											mc20
91 92	L6c(ii)A		L9c(ii)A L9d(i) L9d(ii)	L6c(i)	L7b(i) L7b(ii)								mc12 mc14 L9a(i)	L6a(ii)	L7a	mc18
93 94		L6a L6b L6c		mc10	mc6 L8a(i)								mc15 L9a(iii)	mc13		
95 96	L6c(i) L6c(ii)B	L6e(i)	L9c(i) L9c(ii)B	L6c(ii)									L9a(ii)			mc14
97																
98	L6a	mc8	L9c(iii)A L9c(iii)B		L8c(i)								L12b(ii)	mc15	mc13 L2a(i)	

Higher Traffic Lights		Past Paper Question Bank Unit 2.7 Oxidation of Food										Copyright JABchem				
Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015
99	L11a	L15a								L3a(i)					L2c(ii)	
100 102 106a	L16c		mc18 L5a(iv)	mc20 mc21 L5b	L4b(ii)	mc23 L3a(i) L16a(ii)	L8c	mc21 L2b	mc22 L4d			mc23	mc26	mc25 L7b(ii)		mc23 L11a(i)
101 106b		L10b	L5a(iii)	L8a(ii)	L4b(i)	L3a(ii)	L8b		L4c(i) L4c(ii)	mc25 L3a(ii)		L10c(i)		L7a	mc28	L11a(ii) L11a(iii)
103		L10a	L13a	L8a(i)	mc17			mc19					mc22			
104 105			mc15			mc20			L4b			mc20			L11b	
107																
108																
109																

Higher Traffic Lights		Past Paper Question Bank Unit 2.7 Oxidation of Food												Copyright JABchem			
Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022						revH 2012	revH 2013	revH 2014	revH 2015
99																L2a(ii)	
100 102 106a	mc10 L13a		L6a(ii)A L6a(ii)B L6a(ii)C L6a(iii)A	mc9 L9a(iii)A	mc11									mc18 L4b(ii)	mc16 L4a(ii)	mc12	mc15 mc17 L7a
101 106b	mc12	mc11 L11b(iii)	L6b(iv)	L4b L7c(ii)	mc8										L4a(i)		
103	mc11	mc12 L11b(i)		L4a	L4e(i)									mc17 L4b(i)		mc11 mc15	mc20
104 105			L6b(i) L6b(ii) L6b(iii)	L4e(ii) L12b(ii)											mc17		
107																	
108	mc6			L4d	L4e(ii)												
109																	

Higher Traffic Lights		Past Paper Question Bank Unit 2.8 Fragrances										Copyright JABchem				
Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015
110																
111									mc21							
112																
113a																
113b																

Higher Traffic Lights		Past Paper Question Bank Unit 2.9 Skin Care										Copyright JABchem				
Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015
114																
115																
116 117 118						mc22										
119																

Higher Traffic Lights		Past Paper Question Bank Unit 2.8 Fragrances												Copyright JABchem			
Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022						revH 2012	revH 2013	revH 2014	revH 2015
110	L3a(ii)		mc11											L4c			mc10 L2a(ii)
111	mc13 L4d(i)				L4d(iii)												L4d(i)
112																	
113a				L7a(i)										mc19			
113b		mc5	L10c(ii)	L7a(ii)	mc10										mc19	mc18	

Higher Traffic Lights		Past Paper Question Bank Unit 2.9 Skin Care												Copyright JABchem			
Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022						revH 2012	revH 2013	revH 2014	revH 2015
114		L7a			L7a(ii)											L8a(ii)	
115	L12c(ii)	L7b(i)		L6b(i)												L8a(i)	L10d(ii)
116 117 118	L12c(iii)	L7b(ii)	mc9	L6b(ii)	L7a(i)									L13b(i) L13b(ii)		L8a(iii)	L10d(iii)
119				L6b(iii)	L7a(iii)										L2a		

Higher Traffic Lights		Past Paper Question Bank											Copyright JABchem				
Unit 3.1 Getting The Most From Reactants																	
Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015	
120																	
121	L17b	mc25 L6a	L10a	mc29 L14a L14b	mc29 L3c		L7a L7b	mc29 L7c			mc31		L10a		mc29	L12a(i)	
122																	
123		mc4		mc5 mc14	mc7		mc4	L4a(i)	mc4		mc3 mc5	mc14	mc5	mc17	mc2		
124 129a																	
125 129b											L3b		L2b(ii)				
126 129d														L13b			
127 129f	L7b	mc13	mc11	mc16	mc13	mc17	mc17	mc16	mc19	mc19	mc17	mc16	mc17	mc18			
128 129e	L7c	mc12	L12b(i)	L11c(ii)	mc14	mc14 L11a	L10b	L11b(i)	L7b	L10c	L12a	L5a	L5a		mc18 L14a	mc17 mc18 L9d	
131	L2a		L8a(ii)	L7a	mc15 L12a		mc9	L10b	mc6	mc6		mc7	mc7				
132																	
133 134 135																	
130a 136																	
137	L14a(iii)		L10d	L6c	Mc22	L3b(ii)	L7c(iii)	L8c	Mc23	L8c	L10b	L8b	L10c	L11b	L2c(iii)	L3c	
138																	
130b 139																	
140																	
141																	

Higher
Traffic Lights

Past Paper Question Bank

Copyright
JABchem

Unit 3.1 Getting The Most From Reactants

Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022					revH 2012	revH 2013	revH 2014	revH 2015
120																
121	L7c(i) L8a			L9a(i)												L6b(ii) L9a(i)
122			mc6													
123				mc12	mc13 L1a(i) L4b(i)									mc20		
124 129a																
125 129b			L7c		L8c(ii)											
126 129d														L7a(ii)		
127 129f					mc14	mc18							mc20	mc21		
128 129e	L7a	L3b	L9b(ii)	mc13 L10	mc14 L5a(iii)								L5a		mc19 L12a	mc7 mc26 L3d
131	L3b(i)	mc13	L5a(ii)		L3c(ii)	mc15							mc23			L2c(i)
132						L12b(ii)										
133 134 135																
130a 136														mc24		
137	L3b(ii)A	L7c(iii)		L12b(i)	mc19 L6b(ii)B								L10c	L5b	L2a(iii)	L2c(ii)A
138																
130b 139		L8b(ii)												mc24 L5a		
140			mc14	L2c(ii)	mc17								L10b(i)		L6b	
141																

Higher Traffic Lights		Past Paper Question Bank Unit 3.2a Collision Theory										Copyright JABchem				
Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015
142													L14b			
143	mc5	L3c	L9a(i)	L11c(i)	mc6 mc35 L6b(i)	L5a L9c(iii)	mc6	mc4	mc5 L3b	mc5		L1b(i)	L2b(i)	mc5 L2b(i)	mc7 mc8 mc9	mc3 mc7 L2a
144	mc6	mc5	mc4	mc6		mc5 L5b	mc8	L10a L10b			mc6	L1b(ii)			L3b	

Higher Traffic Lights		Past Paper Question Bank Unit 3.2b Reaction Pathways										Copyright JABchem				
Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015
145	mc7		mc6	L11a	mc8			mc5					mc8		mc6	L9c
146a				L11b	mc8		mc10				mc8			mc6 mc9	mc5	mc12
146b						L2b										
147 148	L6b	mc6		L11b(ii)		L2a		mc8	L14b(i)	mc7	mc7	mc9				

Higher Traffic Lights		Past Paper Question Bank Unit 3.2c Kinetic Energy Distribution										Copyright JABchem				
Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015
149											mc4			L2c		
150																
151							mc7	L6b	mc7							
152a			mc5		L6c	mc6						mc6	mc6		mc10	L2b(i)
152b																L2b(ii)

Higher Traffic Lights		Past Paper Question Bank Unit 3.2a Collision Theory												Copyright JABchem			
Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022						revH 2012	revH 2013	revH 2014	revH 2015
142		L10															
143	L2a	L1c	L2b(ii)	mc2	L1a(ii)A L1a(ii)B											mc22 L9a	
144																L9b	

Higher Traffic Lights		Past Paper Question Bank Unit 3.2b Reaction Pathways												Copyright JABchem			
Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022						revH 2012	revH 2013	revH 2014	revH 2015
145			L2a(iv)B	mc1										mc24			L3c(i)
146a	mc19				L9a(i)										mc25 mc26	mc24	mc5
146b			L2a(iv)A		L1c(i)												
147 148		mc4	L2a(iv)C		L1c(ii)												

Higher Traffic Lights		Past Paper Question Bank Unit 3.2c Kinetic Energy Distribution												Copyright JABchem			
Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022						revH 2012	revH 2013	revH 2014	revH 2015
149		L1a															
150																	
151																	
152a	L2b(i)		L2a(ii)	mc3	mc24									mc25		mc23	
152b	L2b(ii)																

Higher Traffic Lights		Past Paper Question Bank Unit 3.3a Enthalpy										Copyright JABchem				
Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015
153																
154 155				L14b				L5a								
156 157 158	L5a L5c(ii)	L13b	L6c	mc7		L7b	mc11 L4a	L5b	L14b(ii)	L6a(ii)	L14a(iii)	L14b	mc9 L3a L11c		mc11 L8a	L6b(ii)
159						mc7						mc10	mc30	mc10		

Higher Traffic Lights		Past Paper Question Bank Unit 3.3b Hess's Law										Copyright JABchem				
Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015
160a		L7a														
160b	mc21 L12c	L10b	mc23 L4b	mc30 L4b	mc30 L15a	mc32 L7b L9b	mc31 L4a	mc30 L12b	L12b	mc32 L15b	mc32 L8c	L14c	L11b(ii)	mc32 L14a(ii)	mc31 mc32 L8b	mc33 L6b(ii) L12c

Higher Traffic Lights		Past Paper Question Bank Unit 3.3c Bond Enthalpies										Copyright JABchem				
Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015
161										mc8						
162						mc8										

Higher Traffic Lights		Past Paper Question Bank Unit 3.3a Enthalpy												Copyright JABchem			
Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022						revH 2012	revH 2013	revH 2014	revH 2015
153																	
154 155																	
156 157 158	L7b(i)C	L9a(i) L9a(iii)	L4b(iii)	mc16 L8c(i)	L5b(i) L5b(ii) L5b(iii)									mc26 L3a(i)		mc25 L4b(i)	mc28
159		mc16	mc12											mc27	mc27	mc26 L2b	

Higher Traffic Lights		Past Paper Question Bank Unit 3.3b Hess's Law												Copyright JABchem			
Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022						revH 2012	revH 2013	revH 2014	revH 2015
160a																	
160b	mc16 L7b(i)C	L9b	L5b	mc17 L8b	mc21 L9c									L11b(ii)	mc28 L8a	mc27 L4b(ii)	mc21 L9c

Higher Traffic Lights		Past Paper Question Bank Unit 3.3c Bond Enthalpies												Copyright JABchem			
Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022						revH 2012	revH 2013	revH 2014	revH 2015
161		mc14			L5a(ii)												
162	L7c(ii)	L8c	mc18 L2a(i)	L8a	L5a(i)									mc28	L3b	L3a	mc27

Higher Traffic Lights		Past Paper Question Bank Unit 3.4 Equilibria										Copyright JABchem				
Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015
163	mc22			L10a	L5a	mc33				mc34	L3a(i)		mc31	mc33	mc33	mc34
164					L5a		mc32		L10a L10c			mc33			mc33	
165																
166a	mc32	L2b	L10b	mc32	L5b(i)	L4a(i)	L7c(ii)	L1b(iii)		L8b(i)	L3a(ii)	mc34	L13b(i)	L14b	mc34	
166b	mc23		L10c	mc32	L5b(ii)	L4a(ii)	mc33	mc32	L10b		mc33	mc34	L13b(ii)	mc34 L14b	mc34	mc35
166c		mc27			mc32	mc34			mc30	mc35	mc34	L13a	mc33		L6	mc36 L12b
167	L8a(ii)		mc24	mc31	mc31			mc31	mc29	mc33			mc32		mc36	
-	L8b									L8b(ii)						

Higher Traffic Lights		Past Paper Question Bank Unit 3.4 Equilibria												Copyright JABchem			
Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022						revH 2012	revH 2013	revH 2014	revH 2015
163	mc18		mc17											mc21	mc22	mc20	mc23
164		mc15														mc20	
165																	
166a		L8a	L2a(iii)A	mc20	L9a(ii)									L13c(i)	L8b	mc21	
166b		L8b	L2a(iii)B	mc20	mc23									L13c(ii)	mc23 L8b	mc21	mc24
166c	L8b			mc15	L12c												mc25 L9b
167			mc20											mc22	L11c(ii)		
-																	

Higher Traffic Lights		Past Paper Question Bank Unit 3.5a Chromatography										Copyright JABchem				
Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015
168																
169a																
169b 170																

Higher Traffic Lights		Past Paper Question Bank Unit 3.5b Volumetric Titrations										Copyright JABchem				
Outcome	Old H 2000	Old H 2001	Old H 2002	Old H 2003	Old H 2004	Old H 2005	Old H 2006	Old H 2007	Old H 2008	Old H 2009	Old H 2010	Old H 2011	Old H 2012	Old H 2013	Old H 2014	Old H 2015
171	L15b(i)				L16b(i)						L16a					
172		L15b(i)				L15b(ii)			L17c						L13c	
173												L13b(i)				
174					L6a				L6a(i)	L17b				mc2		
175	mc3 L15c	mc4 L15b(ii)	mc3 L14b(ii)		mc4 L16b(ii)	mc4 L15b(iii)		L15b	L17c(ii)	L18c	L16b(i)	L13b(ii)	L6b(i) L16b(ii)	mc7 L16b(ii)	L13d	mc4 L13b(iii)

Higher Traffic Lights		Past Paper Question Bank Unit 3.5a Chromatography												Copyright JABchem			
Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022						revH 2012	revH 2013	revH 2014	revH 2015
168	L4c(i) L4c(ii)	L6d(i)														mc28	L4c(i) L4c(ii)
169a		L6d(ii)			L4b(ii)A L4b(ii)B								mc29 L9b(i) L9b(ii)				
169b 170	L4a L4b		L10a(ii)											L6d(i) L6d(ii) L6d(iii)			L4a L4b

Higher Traffic Lights		Past Paper Question Bank Unit 3.5b Volumetric Titrations												Copyright JABchem			
Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	H 2020	H 2021	H 2022						revH 2012	revH 2013	revH 2014	revH 2015
171	L10a(i) L12a(i)	mc20 L5c(i)	L3														mc30 L10b(i)
172			L7b(iii)A	L11c(i)													
173	L10a(ii) L10b(i)		L7a L7b(iii)C	L9d(i)	L8d(i) L10a								L6c(ii)	L10b(iii)	mc30 L11b(i)		
174			L7b(i) L7b(ii)														
175	L12a(iii)	L11b(iv)	L7b(iii)B	L11c(ii)	L10b(iii) L10c L12d(ii)								L6c(iii)	L10b(ii)	L5a(iv)	L10b(iii)	