JABchem

Question Bank
HIGHER
Chemistry

Self-Evaluation Question Bank

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Unit 1.1 Periodicity

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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	L10a	mc9		mc10	L1a	mc13	L2b		mc15	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			mc9	mc11	mc9	mc3 mc13	mc7	mc11	mc11	mc10	mc32 L2a(ii)		L4a(i)	mc3	mc9
6			L1b L1c				mc12	L1c	mc9	mc10 L1b	L11a(i)	L2a(i)		L4a(ii)	mc13	mc8 mc10
7	L7a		L1a		mc9	mc10		L1a	mc10			L2b		mc11		
8		mc8								L1a						

Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
1																
2a																
2b																
2c																
3	mc1 L1a		mc4 L1a		L3	L2a(i) L2a(ii)	mc1	mc9					mc2 mc3 L1a(i)	mc2	L1a L1c(iii)	mc1 L1a
4	L1b(ii)	L2a(i) L2a(ii)		L2a	L2c L2d	mc2	L1a(ii)	mc8					L1a(ii)	mc3	L1b	L1b(ii)
5	mc2	mc1	L1b(ii)	mc4	L2b(i) L2b(ii)	mc6	mc2 L1b(i)	L1a(iii)A L1a(iii)B						L1a(i)		mc3
6			L1b(i) L1b(iii)		L2a(i) L2a(ii)		L1b(ii)	L1a(i) L1a(ii)						L1a(ii)	mc1	mc2 mc4
7	mc3			L1a(i)		L1a(ii) L1b(i) L1b(ii) L1b(iii)B		L1b(i)						mc1		
8				L1a(ii)		L1a(i) L1a(iii)		L1b(ii)						L1b		

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

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Unit 1.2a Types of Chemical Bond

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Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
9	L1b(i)						L1a(i)									L1b(i)
10a			mc1	L2b(i)	mc1 L12b(i)	L1c	L3						mc4 L7b L7c			
10b		mc2											mc1			
11						L4c(iii)										
12a		mc3						mc1							mc3	
12b																
13		L3a		L2c(i)				L2b(iii)						mc4 L7b(i)		

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					L9a						mc12	
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	L16b		L7b	mc12 L12	L14a(iii)	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																

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Unit 1.2b Intermolecular Forces

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Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
14																
15	mc4															
16						L7c(i)									mc2	
17	L1b(iii)		L1c	L1b		L7c(ii)	L1c(ii)	L2a(i) L9a(i)						mc5	mc4	1b(iii)
18 20			L6c	L4c	mc16			L9a(ii)					L6b			
19				L2b(ii)	mc2	mc3		L7c(i)							mc5	
21 22c					L8a(ii)		mc3									
22a 22b	mc5 L12c(i)	L12a(i)			L6a(i)A L6a(ii)B		L1c(i)	mc2 L2a(ii)							L3b L7c(iii)	L10d(i)
23 24						mc5 L5c(i)							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	

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Unit 1.3 Oxidising and Reducing Agents

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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)			mc38		mc38		mc2						
33 35a				mc37	mc38				mc38		mc39			L16a		
34 35b															mc37	
36 37													mc3			
38 42 43																
39a																
39b																
39c																
40																
41																
44	mc27 L15a	L14a		L8a(iii)	mc37 L12b	L6a(ii)	mc37 L10a	mc37	L17a	L18a	L16b(ii)	mc37	mc37	L17b		L13b(i)
45		L14b	L15a(i)	mc36		L13a(i)	L15a	L15a	mc37	mc37		mc38	L5b			

Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
30 31 32						L4c(ii)							mc8			
33 35a														L10a		
34 35b						L6b(ii)	L6d(ii)								mc8	
36 37						mc4							mc5			
38 42 43	mc20	mc19	mc13	mc18			mc4	L1b(iii)					L1a(iii) L13a	mc7	mc7	mc6
39a																
39b																
39c					mc3											
40			L9b(i)													L10a
41																
44	L12a(ii)	mc18 L11b(ii)	L6a(iii)B	mc19 L11b	L12d(i)		L5b(i) L5b(ii)	mc14					mc9	L2b	L11a	L10b(ii)
45					mc4		mc5	L6d(i)					L5b			

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Unit 2.1 Systematic Carbon Chemistry

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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				L16b(i)	L7c(i)	L12a(ii) L13b(i)	mc22	L9b	mc21 L8a(ii)		mc25		L11d(i)	mc23
48	L16a(ii)															
49	L1b L12b	L8a(i) L11a(i) L16b		mc18 L1a				L12a(i)				L13a(i)	L4a	mc21 L6a	L1b L18a	L2b(i)	
50 51		mc17		mc19			mc20			mc21		mc19		mc20		
52 53										mc13						

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Unit 2.1 Systematic Carbon Chemistry

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Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
46																
47		mc7 L8b(i)		L7b(ii) L7c(i)	L6b(ii)A	L2a(iii) L11b(i) L11b(ii) L11b(iii)		mc25					mc10	L11c(i)		mc19
48	mc12					mc10										
49					L6a(ii)			L9e					L6a	L11b(iii) L13a		
50 51				mc8				mc10						mc8		
52 53		L12a(ii) L12a(iii)					mc14 L6b(ii)						mc16			

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(i) L11a(ii)			mc20
57		mc19			L13b		mc21			L9a	mc20	L6a				
58									L15a(i)							
59									L15b					L9a		L9a(ii)

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																

Past Paper Question Bank
2.2 Alcohols

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Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
54				mc6 L8c(iii)			L8d(ii)B						mc17		mc9 L7b	
55a 56a																
55b 56b	L4d(ii)A mc15		mc7				L5a						L11a(i) L11a(ii)			mc8 L4d(ii)
57	L4d(ii)B	L7b(iv)	L6a(i)		mc5 L6b(i)		mc13	mc21 L9b(i) L9b(ii)								
58				L9c												
59			mc5	L9b									L8a L8b		L10a	L3a

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Unit 2.3 Carboxylic Acids

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Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
60	L11a	L7b(iii)		mc6		mc8							mc17	L6a(i)		
61a 62a		L5b(ii)			mc7								L14a	mc9		
61b 62b				mc7	mc9 L7b(iii)	mc7										
63														L6a(iii)		
64						mc11	L11a(i) L11a(ii)	L3d								

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Unit 2.4 Esters, Fats & Oils

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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						L11a(ii)		
76		L17b		mc26		L1a	L5a(i) L5a(ii)	mc26	L2a	mc29	mc29				L12d(i)	L4b L4c
77 78	mc19				mc27	L1b		L14a	L2b		mc28	L9a		mc29		mc29
79 80												L9b	L9a			
81									L2c							L4a

Past Paper Question Bank
Unit 2.4 Esters, Fats & Oils

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Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
65						mc8	L4a(i)						L9a(i)			
66 67	mc14 L11c	L7c(i) L7c(ii)	mc10	L3a L3b L3c(i)	L4d(ii)	L8a(i)	mc7	L3a(iii)					mc11 L10b(i)	mc10	L6a(iii)	L2b
68													L4c		mc10	
69 70 71	L11b	L7c(iv)		L4e(i)	L7b(i) L7b(ii)	L8a(ii)								mc11	L6a(ii)	
72 73																
74 75	mc9		L4a(i)	L6a(i) L6a(ii)			L4a(ii) L4a(iii)							L6a(ii)		mc16
76		L5a	mc19 L4b(i)		L4c	L5c(ii)		mc3 L3a(i)A L3a(i)B					mc12	L1b L4b(ii)	mc11 L7c(i)	mc13
77 78		L5b(i) L5b(ii)	mc8			mc13	mc1	L5b(ii)C					mc13	mc12		
79 80	mc8						L4b(ii)									mc12
81						L10										

Past Paper Question Bank
Unit 2.5 Soaps, Detergents & Emulsions

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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																

Past Paper Question Bank
Unit 2.6 Proteins

Higher
Traffic Lights

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		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)	

Past Paper Question Bank
Unit 2.5 Soaps, Detergents & Emulsions

Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
82	mc7	mc9	L4a(ii) L4b(ii)	L9d(iii)B	L12a(ii)A			mc20					mc12 L14b(i)	mc18		mc9
83			L9a(i) L9a(ii)		L12a(i) L12a(ii)B		mc12	mc18					L14b(ii)		mc16	L6a
84 85						L7e(i) L7e(ii)		L7a(i)								
86 87								L3c L8								
88		mc10			L12a(iii)		L4c(i) L4c(ii)	L7a(ii)							mc17	

Past Paper Question Bank
Unit 2.6 Proteins

Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
89					L4a(i)	L9a(ii)	L6a(i)									
90					mc12		mc9 L7e(ii)									mc20
91 92	L6c(ii)A		L9c(ii)A L9d(i) L9d(ii)	L6c(i)	L8a(i)		L6a(ii)A L6a(ii)D						mc12 mc14		L7a	mc18
93 94		L6a L6b L6c		mc10		L6c(i)	L6a(ii)C	L3b(i)					mc15 L9a(iii)	mc13		
95 96	L6c(i) L6c(ii)B	L6e(i)	L9c(i) L9c(ii)B	L6c(ii)	mc6	L6c(ii)	L6a(ii)B	L3b(ii)					L9a(ii)			mc14
97							mc11									
98	L6a	mc8	L9c(iii)A L9c(iii)B		L8c(i)	mc12	L6a(iii)	L3b(iii)					L12b(ii)	mc15	mc13 L2a(i)	

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Unit 2.7 Oxidation of Food

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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) L16b(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)				mc19					mc22			
104 105			mc15			mc20			L4b			mc20			L11b	
107																
108																
109																

Past Paper Question Bank
Unit 2.7 Oxidation of Food

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Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
99							L5b(vi)	mc15 L3a(ii)C L3a(ii)D							L2a(ii)	
100 102 106a	mc10 L13a		L6a(ii)A L6a(ii)C L6a(iii)A	mc9 L9d(iii)A	mc11	mc9 mc10 L9c(ii)	mc15 L5b(v)	mc22					mc18 L4b(ii)	mc16 L4a(ii)	mc12	mc15 mc17 L7a
101 106b	mc11 mc12	mc11 L11b(iii)	L6a(ii)B L6b(iv)	L4b L7c(ii)	mc8	L8c(i)A L8c(i)B	mc10 L5b(iii) L5b(iv)	L5b(i) L9d						L4a(i)		
103		mc12 L11b(i)			L4e(i)		L8d(ii)B	L3a(ii)A					mc17 L4b(i)		mc11 mc15	mc20
104 105			L6b(i) L6b(ii) L6b(iii)	L4a L4e(ii) L12b(ii)		mc8		L3a(ii)B						mc17		
107																
108	mc6			L4d	L4e(ii)											
109						mc14	L6b(i)									

Past Paper Question Bank
Unit 2.8 Fragrances

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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																

Past Paper Question Bank
Unit 2.9 Skin Care

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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																

Past Paper Question Bank
Unit 2.8 Fragrances

JABchem Copyright

Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
110	L3a(ii)		mc11			L9b	L8d(i)A						L4c			mc10 L2a(ii)
111	mc13 L4d(i)				L4d(iii)	L9c(i)	L8d(i)BI L8d(i)BII	L5b(ii)A								L4d(i)
112																
113a				L7a(i)				L5b(ii)B					mc19			
113b		mc5	L10c(ii)	L7a(ii)	mc10	L8c(ii)	L8d(i)BIII							mc19	mc18	

Past Paper Question Bank
Unit 2.9 Skin Care

JABchem Copyright

Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
114		L7a			L7a(ii)										L8a(ii)	
115	L12c(ii)	L7b(i)		L6b(i)		L4d(i)	L10b(i)								L8a(i)	L10d(ii)
116 117 118	L12c(iii)	L7b(ii)	mc9	L6b(ii)	L7a(i)	mc15 L4d(iii)A	L10b(ii)A L10b(ii)B	L9c(i) L9c(ii)					L13b(i) L13b(ii)		L8a(iii)	L10d(iii)
119				L6b(iii)	L7a(iii)										L2a	

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(i) L7b(ii)	mc29 L7c			mc31		L10a		mc29	L12a(i)
122																
123		mc4		mc5 mc14	mc7		mc4	L4a(ii)	mc4		mc3 mc5	mc14	mc5	mc17	mc2	
124 129a																
125 129b											L3b		L2b(ii)			
126 129d																
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	mc15 L11a	L10b	L11b(i)	L7b	L10c	L12a	L5a	L5a	L13b	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																

Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
120																
121	L7c(i) L8a			L9a(i)		L7a L7b		L6c(ii)B								L6b(ii) L9a(i)
122																
123			mc6	mc12	mc13 L1a(i) L4b(i)	L1b(iii)A L4d(iii)B L4e(ii)A L6b(iv)A L9d(i)	mc6 L2a L8d(ii)A	mc24						mc20		
124 129a							mc24 L10c									
125 129b			L7c	L8c(ii)		L6b(iv)B		L10c								
126 129d						mc22										
127 129f					mc18	mc19	mc19						mc20	mc21		
128 129e	L7a	L3b	L9b(ii)	mc13 L10	mc14 L5a(iii)	L8b(ii)	L2b(i)	mc23 L5a(i)A					L5a	L7a(ii)	mc19 L12a	mc7 mc26 L3d
131	L3b(i)	mc13	L5a(ii)	L3c(ii)	mc15	L4c(i)	L8b	L6a(ii)					mc23			L2c(i)
132					L12b(ii)											
133 134 135							L9									
130a 136					mc20									mc24		
137	L3b(ii)A	L7c(iii)		L12b(i)	mc19 L6b(ii)B	L9d(ii)		L2b(ii)					L10c	L5b	L2a(iii)	L2c(ii)A
138																
130b 139		L8b(ii)												mc24 L5a		
140			mc14	L2c(ii)	mc17	L2b	L7c	L5a(i)B					L10b(ii)		L6b	
141								L6a(iii)								

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Past Paper Question Bank
Unit 3.2a Collision Theory

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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 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	

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Past Paper Question Bank
Unit 3.2b Reaction Pathways

JABchem Copyright

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		mc8		mc6	L9c
146a				L11a	mc8		mc10				mc8			mc6 mc9	mc5	mc12
146b						L2b										
147 148	L6b	mc6		L11b(ii)		L2a			mc8 L14b(i)	mc7	mc7	mc9				

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Past Paper Question Bank
Unit 3.2c Kinetic Energy Distribution

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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)

Past Paper Question Bank
Unit 3.2a Collision Theory

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JABchem
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Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
142		L10														
143	L2a	L1b(i) L1c	L2b(ii)	mc2	L1a(ii)A L1a(ii)B L1a(iii)	mc16 mc17	mc18	mc5 L10d(i)								mc22 L9a
144			L2b(iii)		L1b	L3	L6a(iv)									L9b

Past Paper Question Bank
Unit 3.2b Reaction Pathways

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Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
145			L2a(iv)B	mc1		mc18	mc21	mc4 L6a(i)A					mc24			L3c(i)
146a	mc19				L9a(i)	L4e(ii)B		mc4						mc25 mc26	mc24	mc5
146b			L2a(iv)A		L1c(i)			L6a(i)B								
147 148		mc4	L2a(iv)C		L1c(ii)	L7d	L2b(ii) L8a(i) L8a(ii)	mc6								

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Unit 3.2c Kinetic Energy Distribution

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Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
149		L1a														
150																
151								L6b(i)A								
152a	L2b(i)		L2a(ii)	mc3	mc24		L2b(iv)	L6b(i)B					mc25		mc23	
152b	L2b(ii)							L6b(ii)								

Past Paper Question Bank
Unit 3.3a Enthalpy

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(i) 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		

Past Paper Question Bank
Unit 3.3b Hess's Law

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 L9b	mc31	mc30 L12b	L12b	mc32 L15b	mc32 L8c	L14c	L11b(ii)	mc32 L14a(ii)	mc31 mc32 L8b	mc33 L12c

Past Paper Question Bank
Unit 3.3c Bond Enthalpies

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										

Past Paper Question Bank
Unit 3.3a Enthalpy

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Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
153																
154 155																
156 157 158	L7b(i)C	L9a(i) L9a(iii) L9b	L4b(iii)	mc16 L8c(i)	L5b(i) L5b(ii) L5b(iii)	L5a L5b(i) L5b(ii)	L7a	mc7 mc17					mc26 L3a(i)		mc25 L4b(i)	mc28
159		mc16	mc12				L2b(iii)	mc12					mc27	mc27	mc26 L2b	

Past Paper Question Bank
Unit 3.3b Hess's Law

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Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
160a																
160b	mc16		L5b	mc17 L8b	mc21 L9c	L2c	mc22 L7c	L2b(i)					L11b(ii)	mc28 L8a	mc27 L4b(ii)	mc21 L9c

Past Paper Question Bank
Unit 3.3c Bond Enthalpies

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JABchem Copyright

Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
161		mc14	L2a(i)		L5a(ii)	L4a										
162	L7c(ii)	L8c	mc18	L8a	L5a(i)	L4d(ii)	L7b	L7c(ii)					mc28	L3b	L3a	mc27

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	mc23	L2b	L10b	mc32	L5b(i)	L4a(i)	L7c(ii)	L11a(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				mc34			mc30		mc34	L13a	mc33		L6	mc36 L12b
167	L8a(ii)		mc24	mc31	mc31			mc31	mc29	mc33			mc32		mc36	
-	L8b								L8b(ii)							

Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
163	mc18		mc17					L6c(i)					mc21	mc22	mc20	mc23
164		mc15						mc13							mc20	
165																
166a		L8a	L2a(iii)A	mc20	L9a(ii)	mc21 mc25 L4e(i)	L7d						L13c(i)	L8b	mc21	
166b		L8a	L2a(iii)B	mc20	mc23	mc25	L7d						L13c(ii)	mc23 L8b	mc21	mc24
166c	L8b			mc15	L12c		mc20	L6c(ii)A								mc25 L9b
167			mc20										mc22	L11c(ii)		
-																

Past Paper Question Bank
Unit 3.5a Chromatography

JABchem Copyright

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																

Past Paper Question Bank
Unit 3.5b Volumetric Titrations

JABchem Copyright

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					L16b(i)						L16a					
172		L15b(i)				L15b(ii)			L17c(i)					L16b(i)	L13c	
173	L15b(i)										L13b(i)					
174					L6a			L6a(i)	L17b					mc2		
175	mc3 L15c	mc3 L15b(ii)	mc3 L14b(ii)		mc4 L16b(ii)	mc4 L15b(iii)		L15b	L17c(ii)	L18c	L16b(i)	L13b(ii)	L6b(i)	mc7 L16b(ii)	L13d	mc4 L13b(iii)

Past Paper Question Bank
Unit 3.5a Chromatography

JABchem Copyright

Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
168	L4c(i) L4c(ii)	L6d(i)				mc23	mc17									L4c(i) L4c(ii)
169a		L6d(ii)			L4b(ii)A L4b(ii)B								mc29 L9b(i) L9b(ii)			
169b 170	L4a L4b		L10a(ii)				L4b(i)	mc16 L3a(iv)A L3a(iv)B						L6d(i) L6d(ii) L6d(iii)	mc28	L4a L4b

Past Paper Question Bank
Unit 3.5b Volumetric Titrations

JABchem Copyright

Outcome	New H 2015	H 2016	H 2017	H 2018	H 2019	Unused 2020	H 2022	H 2023	H 2024	H 2025			revH 2012	revH 2013	revH 2014	revH 2015
171	L10a(i) L12a(i)	mc20 L5c(i)	L3 L7b(iii)D			L9a(iii)	mc16 mc25 L11c(i)	L4								mc30 L10b(i)
172			L7b(iii)A	L11c(i)		mc24	L11c(ii)							L10b(i)		
173	L10a(ii) L10b(i)		L7a L7b(iii)C	L9d(i)	L8b(i) L10a	L6b(iii)	Mc23 L11b						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)		L8c L11d	L7a(iii)					L6c(iii)	L10b(ii)	L5a(iv)	L10b(iii)