

# Summary of GCSE Chemistry Specification Content and Examination Data (summer 2008)

RSC Curriculum and Assessment Group



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## **Summary of GCSE Chemistry Specification Content and Examination Data (summer 2008)**

From September 2008, all students who have achieved Level 6 in Science at Key Stage 3 will be entitled to study GCSEs in physics, chemistry and biology ('Triple Science'). This move by the government is intended to increase the number of students taking up A levels in the sciences.

With more and more students expected to pursue separate sciences at GCSE, the Curriculum and Assessment Group of the RSC felt that it would be a worthwhile and timely exercise to summarise the current content of the GCSE Chemistry specifications available from each of the awarding bodies (AQA, Edexcel, OCR, and WJEC). August 2008 saw the release of results for the first cohort of students through the new GCSE Chemistry specifications in England and Wales. A collation of this examination and coursework data from summer 2008 was also viewed as an essential part of the committee's work. Presented herein are the results of that work.

It is not the intention of the group to analyse, draw inferences or comment upon the data, merely to present it.

The information is presented in two sections.

*Section 1* is a collection of tables which summarise each of the courses in terms of the breakdown of each specification into its component modules. Names of the modules are given along with their modes of assessment. Other relevant information such as the length of the examination, the proportion of marks awarded for the module and the available sittings is also presented.

*Section 2* contains a series of tables containing the relevant examination statistics for each specification from the awarding bodies.

It is hoped that readers will find this document enlightening and that it will help them in their future choice of GCSE Chemistry courses.

The committee would like to extend its thanks to the examination officers at each of the awarding bodies for their help with this work.

Will Davey CChem MRSC

RSC Curriculum and Assessment Group

## Section 1

### A comparison of the modes of assessment in the current GCSE Chemistry qualifications.

The tables below give an overview of the modes of assessment offered by the different awarding bodies for GCSE Chemistry. They do not contain information that is specific to awards of GCSE Science, GCSE Additional Science or GCSE Applied Science although there are many modules that are common to these awards.

Five specifications are considered: AQA, OCR Gateway, OCR 21<sup>st</sup> Century Science, Edexcel and WJEC (*n.b.* CCEA, see <http://www.ccea.org.uk/chemistry/>, does not appear to offer a new specification for first examination in 2008, but it does appear to endorse the Edexcel specification, and so it is not included in the tables below).

### Websites for Chemistry GCSEs

Details of specifications, planned modifications from September 2009, and other useful information can be found at:

AQA: [http://www.aqa.org.uk/qual/gcse/new\\_chemistry.php](http://www.aqa.org.uk/qual/gcse/new_chemistry.php)

OCR Gateway: [http://www.ocr.org.uk/qualifications/gcse/science\\_gateway\\_science\\_chemistry\\_b/](http://www.ocr.org.uk/qualifications/gcse/science_gateway_science_chemistry_b/)

OCR 21<sup>st</sup> Century Science: [http://www.ocr.org.uk/qualifications/gcse/science\\_twentyfirst\\_century\\_science\\_chemistry\\_a/](http://www.ocr.org.uk/qualifications/gcse/science_twentyfirst_century_science_chemistry_a/)

Edexcel: <http://www.edexcel.org.uk/quals/gcse/science/gcse-sci2006/gcse-che/>

WJEC: <http://www.wjec.co.uk/index.php?subject=13&level=7&imageField2.x=31&imageField2.y=10>

**Table 1. GCSE Chemistry : First sets of units**

<b>Exam Board</b>	<b>Module name(s) and weighting(s) (marks as % of overall grade)</b>	<b>Duration of exam</b>	<b>Style of exam</b>	<b>Availability</b>	<b>Internal Assessment</b>
<b>AQA (4421)</b>  <i>(Candidates sit either C1, or C1a and C1b)</i>	<b>Chemistry 1</b> (45 marks, 25%)	45 minutes	Written paper	January; June	<i>ISA and PSA from one of C1 or C2 or C3 (25%)<sup>2</sup></i>
	<b>Chemistry 1a</b> (36 marks, 12.5%)	30 minutes	Multiple choice objective test <sup>1</sup>	November; March; June	
	<b>Chemistry 1b</b> (36 marks, 12.5%)	30 minutes	Multiple choice objective test <sup>1</sup>		
<b>OCR Gateway (J644)</b>  <i>(Candidates sit C1 and C2 and C3)</i>	<b>Chemistry B Unit 1 (B641)</b> comprising: C1, C2 and C3 (60 marks, 33.3%)	60 minutes	Written paper	January; June	<i>None: IA is either Unit 3 or 4<sup>3</sup></i>
<b>OCR 21<sup>st</sup> Century Science (J634)</b>  <i>(Candidates sit C1 and C2 and C3)</i>	<b>Chemistry A Unit 1 (A321)</b> comprising: C1, C2 and C3 (42 marks, 16.7%)	40 minutes	Written paper	January; June	<i>None: IA is either Unit 4 or 5<sup>4</sup></i>
<b>Edexcel (2107)</b>  <i>(Candidates sit C1a and C1b and IA)</i>	<b>C1a</b> (24 marks, 10%)	20 minutes	Multiple choice objective test <sup>5</sup>	November; March; June	<i>Compulsory IA based on Unit C1 (10%, June only)<sup>6</sup></i>
	<b>C1b</b> (24 marks, 10%)	20 minutes	Multiple choice objective test <sup>5</sup>		
<b>WJEC</b>	<b>Chemistry 1</b> (50 marks, 25%)	45 minutes		January; June	<i>None</i>

<sup>1</sup>AQA objective tests are available as paper-based or on-screen tests

<sup>2</sup>AQA coursework details below

<sup>3</sup>OCR Gateway internal assessment forms either Unit 3 or Unit 4 of the Chemistry GCSE (see Table 4 : Internal Assessment)

<sup>4</sup> OCR 21<sup>st</sup> Century internal assessment forms either Unit 4 or Unit 5 of the Chemistry GCSE (see Table 4 : Internal Assessment)

<sup>5</sup>Edexcel objective tests are paper-based, and on-screen assessment will be introduced at the earliest possibility

<sup>6</sup>See below for the range of Edexcel IA assessment routes

**Table 2. GCSE Chemistry : Second sets of units**

<b>Exam Board</b>	<b>Module name(s) and weighting(s) (marks as % of overall grade)</b>	<b>Duration of exam</b>	<b>Style of exam</b>	<b>Availability</b>	<b>Internal Assessment</b>
<b>AQA (4421)</b>	<b>Chemistry 2</b> (45 marks, 25%)	45 minutes	Written paper	January; June	<i>ISA and PSA from one of C1 or C2 or C3 (25%)<sup>2</sup></i>
<b>OCR Gateway (J644)</b> <i>(Candidates sit C4 and C5 and C6)</i>	<b>Chemistry B Unit 2 (B642)</b> comprising: C4, C5 and C6 (60 marks, 33.3%)	60 minutes	Written paper	January; June	<i>None: IA is either Unit 3 or 4<sup>3</sup></i>
<b>OCR 21<sup>st</sup> Century Science (J634)</b> <i>(Candidates sit C4 and C5 and C6)</i>	<b>Chemistry A Unit 2 (A322)</b> comprising: C4, C5 and C6 (42 marks, 16.7%)	40 minutes	Written paper	January; June	<i>None: IA is either Unit 4 or 5<sup>4</sup></i>
<b>Edexcel (2107)</b> <i>(Candidates sit two of the three assessments, and IA)</i>	<b>C2 – Externally assessed (10%)</b>	30 minutes	Written paper	November; March; June	<i>Compulsory IA based on Unit C2 (10%, June only)<sup>5</sup></i>
	<b>C2 – Externally assessed (10%)</b>	20 minutes	Multiple choice objective test <sup>4</sup>		
	<b>C2 – Internally assessed (10%)</b>	N/A	<i>Centre devised IA<sup>5</sup></i>	June	
<b>WJEC</b>	<b>Chemistry 2</b> (50 marks, 25%)	45 minutes	Written paper	January; June	<i>None</i>

**Table 3. GCSE Chemistry : Third sets of units**

<b>Exam Board</b>	<b>Module name(s) and weighting(s) (marks as % of overall grade)</b>	<b>Duration of exam</b>	<b>Style of exam</b>	<b>Availability</b>	<b>Internal Assessment</b>
<b>AQA (4421)</b>	<b>Chemistry 3</b> (45 marks, 25%)	45 minutes	Written paper	January; June	<i>ISA and PSA from one of C1 or C2 or C3 (25%)<sup>2</sup></i>
<b>OCR Gateway (J644)</b>  <i>(Candidates sit either Unit 3 or Unit 4)</i>	<b>Chemistry B Unit 3 (B645)</b> comprising: Can-do tasks and Report on Science in the news (60 marks, 33.3%)	N/A	Can-do tasks (24 marks) Report on Science in the news (36 marks)	June	<i>None: IA is either Unit 3 or 4<sup>3</sup></i>
	<b>Chemistry B Unit 4 (B646)</b> comprising: Research Study, Data Task and Practical Skills (60 marks, 33.3%)	N/A	Research Study (24 marks) Data Task (30 marks) Practical Skills (6 marks)	June	
<b>OCR 21<sup>st</sup> Century Science (J634)</b>	<b>Chemistry A Unit 3 (A323)</b> comprising: Ideas in Context and Chemistry 7 (55 marks, 33.3%)	60 minutes	Written paper (incorporating pre-release material, focussing on two of modules C1-C6)	June	<i>None: IA is either Unit 4 or 5<sup>4</sup></i>
<b>Edexcel (2107)</b>  <i>(Candidates sit either C3–Internal or C3–External)</i>	<b>C3 – Externally assessed</b> (60 marks, 30%)	60 minutes	Written paper (short answer and extended prose)	June	<i>Only through internally assessed route<sup>5</sup></i>
	<b>C3 – Internally assessed</b> (30%)	N/A	<i>Centre devised IA<sup>5</sup></i>		
<b>WJEC</b>	<b>Chemistry 3</b> (50 marks, 25%)	45 minutes	Written paper	June	<i>None</i>

**Table 4. Internal assessment**

Exam Board	Module name(s) and weighting(s) (marks as % of overall grade)	Availability	Details
<b>AQA (4421)</b>	Chemistry Centre-Assessed Unit (40 marks: 34 marks for ISA, 6 marks for PSA, <b>25%</b> )	June	Investigative Skills Assignment [ISA] (normal class practical work followed by externally set, internally assessed test taking 45 minutes), and a Practical Skills Assessment [PSA] which is a holistic practical skills assessment, based on content from one of modules C1 or C2 or C3.
<b>OCR Gateway (J644)</b>  (Candidates sit <b>either</b> Unit 3 <b>or</b> Unit 4)	<b>Chemistry B Unit 3 (B645)</b> comprising: Can-do tasks and Report on Science in the news (60 marks, <b>33.3%</b> )	June	IA is either Unit 3 or 4: see section 5.1 of specification for an overview.
	<b>Chemistry B Unit 4 (B646)</b> comprising: Research Study, Data Task and Practical Skills (60 marks, <b>33.3%</b> )		
<b>OCR 21<sup>st</sup> Century Science (J634)</b>  (Candidates sit <b>either</b> Unit 4 <b>or</b> Unit 5)	<b>Chemistry A Unit 4 (A329)</b> comprising: Critical analysis of Primary Data and Case study of a topical scientific issue (40 marks, <b>33.3%</b> )	June	<ul style="list-style-type: none"> <li>Critical analysis of Primary Data (16 marks) and Case study of a topical scientific issue (24 marks)</li> <li>Opportunities for both elements should arise naturally during the course</li> <li>This unit is assessed by teachers, internally standardised and then externally moderated</li> <li>See section 5.1 of specification for an overview</li> </ul>
	<b>Chemistry A Unit 5 (A330)</b> Comprising five strands which together assess a complete investigative task (40 marks, <b>33.3%</b> )		<ul style="list-style-type: none"> <li>This unit is assessed by teachers, internally standardised and then externally moderated</li> <li>See section 5.1 of specification for an overview</li> </ul>
<b>Edexcel (2107)</b>  (Candidates are to follow one of the four routes for IA: see summary on specification p.13)	Route 1 ( <b>60% overall</b> )	June	Internal non-moderated practical skills (10%); C1 – compulsory IA (10%); C2 – compulsory IA (10%); C3 – optional IA (30%)
	Route 2 ( <b>30% overall</b> )		Internal non-moderated practical skills (10%); C1 – compulsory IA (10%); C2 – compulsory IA (10%)
	Route 3 ( <b>70% overall</b> )		Internal non-moderated practical skills (10%); C1 – compulsory IA (10%); C2 – compulsory IA (10%); C2 – optional IA (10%); C3 – optional IA (30%)
	Route 4 ( <b>40% overall</b> )		Internal non-moderated practical skills (10%); C1 – compulsory IA (10%); C2 – compulsory IA (10%); C2 – optional IA (10%)
<b>WJEC</b>	Practical Task	(75 marks, 25%)	May submission deadline
	Extended Report		
	Investigatory Planning Exercise		
			Candidates should undertake three tasks: of these, <b>at least one should</b> be a practical task, one <b>may</b> be an Extended Report and one <b>may</b> be a Planning Task. Each task is marked out of 25, giving a total mark of 75 (25% of overall grade).

## Section 2

Relevant examination statistics for each specification from the awarding bodies.

AWARDING BODY	ENTRY	UNIT TITLE	UNIT CODE		GRADE							Mean Score	TIER	
					A*	A	B	C	D	E	F			G
OCR (21st Cent)	17 099 (H)	C1, C2,C3 (Unit 1)	A321/02	% CANDIDATES	16.7	32.0	34.0	12.6	4.1	0.4				H
	2 549 (F)		A321/01				30.5	30.5	23.2	11.5	3.4		F	
			A321/02	CUMULATIVE %	16.7	48.7	82.7	95.3	99.4	99.8				H
			A321/01				30.5	61	84.2	95.7	99.1		F	
			A321/02	RAW SCORE/42	34	30	25	21	16	13			28.9	H
			A321/01				29	25	21	17	13	25.6	F	
	11 826 (H)	C4,C5,C6 (Unit 2)	A322/02	% CANDIDATES	20.4	23.1	29.6	20.3	6.0	0.5				H
	1 698 (F)		A322/01				37.6	26.7	20.8	9.6	4.0		F	
			A322/02	CUMULATIVE %	20.4	43.5	73.1	93.4	99.4	99.9				H
			A322/01				37.6	64.3	85.1	94.7	98.7		F	
			A322/02	RAW SCORE/42	34	29	23	17	12	9			27.1	H
			A322/01				28	25	22	19	16	26.0	F	
	10 692 (H)	(Unit 3)	A323/02	% CANDIDATES	20.0	26.0	29.5	19.3	4.5	0.5				H
	497 (F)		A323/01				49.7	20.6	13.7	11.4	3.8		F	
			A323/02	CUMULATIVE %	20.0	46.0	75.5	94.8	99.3	99.8				H
			A323/01				49.7	70.3	84.0	95.4	99.2		F	
			A323/02	RAW SCORE/55	28	22	16	10	6	4			21.1	H
			A323/01				24	19	15	11	7	22.6	F	
	3 526	(Unit 4)	A329	RAW SCORE/40	33	29	25	21	17	13	10	7	29.4	
	7 868	(Unit 5)	A330	RAW SCORE/40	33	30	26	23	19	16	13	10	29.7	
				A*	A	B	C	D	E	F	G			
10 392		J634	% CANDIDATES	17.6	32.5	30.7	14.2	3.6	1.2	0.3	0.1			
			CUMULATIVE %	17.6	50.1	80.8	95.0	98.6	99.6	99.9	100			

AWARDING BODY	ENTRY	UNIT TITLE	UNIT CODE		GRADE								Mean Score	TIER
					A*	A	B	C	D	E	F	G		
OCR (GATEWAY)	9 989 (H)	C1.C2,C3 (Unit 1)	B641/02	% CANDIDATES	28.1	26.5	24.9	13.8	5.3	1.0				H
	627 (F)		B641/01				44.5	31.4	17.4	5.3	1.3		F	
			B641/02	CUMULATIVE %	28.1	54.6	79.5	93.3	98.6	99.6				H
			B641/01					44.5	75.9	93.3	98.6	99.8		F
			B641/02	RAW SCORE/60	45	37	29	22	17	14			37.6	H
			B641/01					35	29	23	18	13	33.5	F
	8 259 (H)	C4,C5,C6 (Unit 2)	B642/02	% CANDIDATES	30.0	27.5	23.4	13.8	3.3	0.9				H
	680 (F)		B642/01				50.2	24.6	16.6	6.8	1.2		F	
			B642/02	CUMULATIVE %	30.0	57.5	80.9	94.7	98.0	98.9				H
			B642/01					50.2	74.7	91.3	98.1	99.3		F
			B642/02	RAW SCORE/60	44	37	30	23	16	12			38.2	H
			B642/01					35	29	23	17	11	33.8	F
	5 451	Unit 3	B645/01	% CANDIDATES	25.2	30.9	26.2	9.5	5.2	1.6	0.6	0.5		
			B645/01	CUMULATIVE %	25.2	56.2	82.3	91.8	97.0	98.5	99.1	99.6		
			B645/01	RAW SCORE/60	53	49	44	40	35	30	25	20	48.3	
	3 596	Unit 4	B646/01	% CANDIDATES	28.8	27.2	23.8	10.3	6.2	2.2	1.2	0.2		
			B646/01	CUMULATIVE %	28.8	56.0	79.8	90.1	96.3	98.5	99.7	99.9		
			B646/01	RAW SCORE/60	52	47	41	36	30	24	18	12	46.4	
						A*	A	B	C	D	E	F	G	
8 917		J644	% CANDIDATES	24.8	30.2	23.9	13.7	4.8	1.8	0.5	0.1			
			CUMULATIVE %	24.8	55.0	78.9	92.6	97.4	99.2	99.6	99.9			

AWARDING BODY	ENTRY	UNIT TITLE	UNIT CODE		GRADE								Mean Score	TIER
					A*	A	B	C	D	E	F	G		
Edexcel	3 425 (H)	C1	5035 H	% CANDIDATES	37.4	23.4	21.6	10.6	6.3	0.7				H
	174 (F)		5035 F				28.0	35.2	25.9	8.0	0.9		F	
	5035 H		CUMULATIVE %	37.4	60.8	82.4	93.1	99.3	100					H
	5035 F						27.6	63.2	89.1	97.1	98.3			F
	5035 H		RAW SCORE/24	17	14	11	9.0	6	4				14.1	H
	5035 F						15.0	12	9	7	5		6.4	F
3 335 (H)	5036 H		% CANDIDATES	36.7	19.5	19.7	8.1	14.9	1.0					H
167 (F)	5036 F						26.0	36.3	21.5	3.0	8.2			F
	5036 H		CUMULATIVE %	36.7	56.2	75.9	84.1	98.9	99.9					H
	5036 F						26.3	62.3	83.8	86.8	94.6			F
	5036 H		RAW SCORE/24	16	14	12	11.0	7	5				13.6	H
	5036 F						15.0	12	9	7	5		6.2	F
2 689 (H)	5037 H	% CANDIDATES	41.8	15.4	16.5	15.3	9.3	1.2					H	
199 (F)	5037 F					45.2	28.2	13.5	10.6	1.5			F	
	5037 H	CUMULATIVE %	41.8	57.2	73.7	88.7	98.3	99.5					H	
	5037 F					45.2	73.4	86.9	97.5	99			F	
	5037 H	RAW SCORE/24	14	12	10	8.0	5	3				11.9	H	
	5037 F					12.0	10	8	6	4		5.6	F	
2 818 (H)	5038 H	% CANDIDATES	46.5	16.9	16.3	10.4	6.4	2.0					H	
261 (F)	5038 F					45.2	37.9	11.5	3.1	2.3			F	
	5038 H	CUMULATIVE %	46.5	63.4	79.7	90.1	96.5	98.5					H	
	5038 F					45.2	83.1	94.6	97.7	100			F	
	5038 H	RAW SCORE/30	17	13	9	6.0	4	3				15.5	H	
	5038 F					17.0	14	11	8	5		14.2	F	
8 645	5039 H	% CANDIDATES	13.5	14.6	18.6	23.2	11.6	11.2	6.4	0.9				
	5039	CUMULATIVE %	13.5	28.1	46.7	69.9	81.5	92.7	99.1	100				
	5039	RAW SCORE/60	42	34	26	18.0	14	10	6	2		25.9		
	5034	RAW SCORE/18	16	14	12	11	9	7	5	3		16.0		
	5003	RAW SCORE/30	27	24	21	18	14	11	8	5		18.5		
	5013	RAW SCORE/30	25	22	19	16	13	10	7	4		19.4		
	5022		22	19	16	14	12	10	8	6		13.4		
	5040		86	76	66	56	46	36	26	16		62.2		
						A*	A	B	C	D	E	F	G	
	8 651		2107	% CANDIDATES	18.1	27.5	37.1	17.9	7.2	1.6	0.4	0.2		
				CUMULATIVE %	18.1	45.6	72.7	90.6	97.8	99.4	99.8	100		

AWARDING BODY	ENTRY	UNIT TITLE	UNIT CODE		GRADE								Mean Score	TIER
					A*	A	B	C	D	E	F	G		
AQA	22 994 (H)	Chemistry 1a	CH1AH	% CANDIDATES	16.2	14.3	21.1	21.6	19.1	5.1				H
	22 812 (F)		CH1AF				25.4	28.7	19.3	14.0	8.0		F	
			CH1AH	CUMULATIVE %	16.2	30.5	51.6	73.2	92.3	97.4				H
			CH1AF				25.4	54.1	73.4	87.4	95.4		F	
			CH1AH	RAW SCORE/36	29	26	22	18	13				21.7	H
			CH1AF				24	20	17	14	11		19.8	F
	68 911 (H)	Chemistry 1b	CH1BH	% CANDIDATES	16.8	17.6	21.6	20.8	14.0	5.1				H
	55 490 (F)		CH1BF				30.0	27.9	18.4	12.6	7.1		F	
			CH1BH	CUMULATIVE %	16.8	34.4	56.0	76.8	90.8	95.9				H
			CH1BF				30.0	57.9	76.3	88.9	96.0		F	
			CH1BH	RAW SCORE/36	28	25	22	20	16				22.3	H
			CH1BF				24	20	17	14	11		20.4	F
	43 296 (H)	Chemistry 1	CHY1H	% CANDIDATES	29.4	13.7	26.9	17.5	8.8	2.4				H
	18 201 (F)		CHY1F				34.8	26.3	20.8	12.4	4.7		F	
			CHY1H	CUMULATIVE %	29.4	43.1	70.0	87.5	96.3	98.7				H
			CHY1F				34.8	61.1	81.9	94.3	99.0		F	
			CHY1H	RAW SCORE/45	33	30	23	17	12				26.9	H
			CHY1F				23	19	15	11	7		20.1	F
	111 622 (H)	Chemistry 2	CHY2H	% CANDIDATES	22.4	18.5	25.7	20.7	6.9	2.9				H
	77 387 (F)		CHY2F				39.6	28.9	20.1	8.1	2.9		F	
			CHY2H	CUMULATIVE %	22.4	40.9	66.6	87.3	94.2	97.1				H
			CHY2F				39.6	68.5	88.6	96.7	99.6		F	
			CHY2H	RAW SCORE/45	31	26	20	14	11				23.6	H
			CHY2F				24	19	14	10	6		21.6	F
	40 388 (H)	Chemistry 3	CHY3H	% CANDIDATES	26.9	13.1	21.7	19.4	11.3	3.7				H
	2 475 (F)		CHY3F				31.4	39.0	20.7	5.7	2.3		F	
			CHY3H	CUMULATIVE %	26.9	40.0	61.7	81.1	92.4	96.1				H
			CHY3F				31.4	70.4	91.1	96.8	99.1		F	
	CHY3H		RAW SCORE/45	34	31	26	21	17				27.9	H	
	CHY3F					31	26	21	17	13		27.8	F	
	Cen. Ass. Unit	CHYC	RAW SCORE/40	35	33	28	24	20	7	14	11	32.3		
				A*	A	B	C	D	E	F	G			
	41 134		4421	% CANDIDATES	25.8	28.9	25.4	14.7	4.0	0.7	0.3	0.1		
				CUMULATIVE %	25.8	54.7	80.1	94.8	98.8	99.5	99.8	99.9		

\* data unavailable at point of publication

AWARDING BODY	ENTRY	UNIT TITLE		GRADE							Mean Score	TIER	
				A*	A	B	C	D	E	F			G
WJEC	7 970 (H)	Chemistry 1	% CANDIDATES	13.8	23.8	26.1	16.8	14.1	3.6				H
	10 001 (F)					47.1	20.2	12.4	9.6	6.2		F	
			CUMULATIVE %	13.8	37.6	63.7	80.5	94.6	98.2				H
							47.1	67.3	79.7	89.3	95.5		F
		RAW SCORE/50	43.0	38.0	33.0	29.0	22.0	18.0			34.5	H	
						27.0	22.0	18.0	14.0	10.0	25.1	F	
	5 903 (H)	Chemistry 2	% CANDIDATES	24.3	21.8	24.4	19.5	8.7	1.0				H
	7 667 (F)					53.3	29.8	11.6	3.7	1.3		F	
			CUMULATIVE %	24.3	46.1	70.5	90	98.7	99.7				H
							53.3	83.1	94.7	98.4	99.7		F
		RAW SCORE/50	37	32	27	22	17	14			31.0	H	
						33	27	22	17	12	32.3	F	
	2 276 (H)	Chemistry 3	% CANDIDATES	28.3	24.7	22.1	16.9	7.7	0.3				H
	454 (F)					59.7	35.7	3.9	0.7	0.0		F	
			CUMULATIVE %	28.3	53.0	75.1	92.0	99.7	100				H
							59.7	95.4	99.3	100	100		F
		RAW SCORE/50	42	37	32	27	19	15			36.6	H	
					34	28	23	18	13	34.8	F		
	Int. Assessment	% CANDIDATES	29.7	22.5	21.2	12.1	11	2.1	0.4	0.7			
2 750		CUMULATIVE %	29.7	52.2	73.4	85.5	96.5	98.6	99.0	99.7			
		RAW SCORE/75	62	57	52	48	39	31	23	15	53		
			A*	A	B	C	D	E	F	G			
2 750		% CANDIDATES	19.7	27.7	26.2	20.7	4.9	0.6	0.1	0.0			
		CUMULATIVE %	19.7	47.4	73.6	94.3	99.2	99.8	99.9	99.9			

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