

Syllabus update

Cambridge International AS Level Physical Science 8780 (for examination in 2016)

We have updated this syllabus. The latest syllabus is published in October 2014.

Changes have been made to section 5.4 Symbols, signs, abbreviations and nomenclature

Data Booklet, Date and Formulae has now become

Data Booklet

Changes have been made to section 9.7 Data Booklet, including the Periodic Table of Elements

The first paragraph: Data and formulae printed in this data booklet will appear as pages 2 and 3 in Papers 1, 2 and 3, has been removed.

Changes have been made to section 6.2 Chemistry, subsection C4. Atomic Structure, page 27.

Learning text

(c) calculate enthalpy changes from appropriate experimental results, including the use of the relationship for thermal energy change $q = -mc\Delta T$

Should now read:

(c) calculate enthalpy changes from appropriate experimental results, including the use of the relationship for thermal energy change $q = mc\Delta T$

Changes have also been made to section 6.2 Chemistry, subsection C7. The Periodic Table: chemical periodicity, page 29.

Content

7.1.1 Atomic radius and ionic radius

Should now read

7.1.1 Atomic radius



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Please note changes in the Periodic Table as follows: 118.7 Sn tin 50 and – Cn copernicium 112

								Gn	oup								
1	II											III	IV	V	VI	VII	0
							1.0										4.
							н										H
Key																	heli 2
6.9	9.0	1	relative atomic mass				1					10.6	12.0	14.0	16.D	19.0	20
Li	Be		atomic symbol									В	C	N.	0	F	N
186um	beryllum		atomic symbol									boton	parten	nitrogen	more	Series	79
3	4		atomic number									6	6	7	8	9	11
23.0	24.3	1										27.0	26.1	31.0	32.1	35.5	39
Na	Mg											A.I	Si	P	s	Ci	A
sodium	nogrosium											aluminium	silicon	phosphorus	sufur	chiorine	89
11	12											13	14	15	16	17	11
39.1	40.1	45.0	47.9	50.9	52.0	54.9	55.8	58.9	58.7	63.5	65.4	69.7	72.6	74.9	79.0	79.9	83
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	, K
19	20	21	Stanium 22	zanadium 23	24	25	26	27	rickel 28	zapper 29	ainc 30	31	germanium 32	33	solenium 34	35	179
86.6	87.6	88.9	91.2	92.9	95.9		101.1	102.9	106.4	107.9	112.4	114.8	118.7	121.8	127.6	126.9	131
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	X
rubidium	EUG.	yttien	airsanium	nistium	molybdenum	technetium	satherium	radium	patadum	nher .	cadmium	indiam	Sin.	antimony	Musium	intine	X00
37	38	39	40	41	42	43	44	45	45	47	48	49	50	51	52	53	5
132.9	137.3		178.5	100.9	163.6	186.2	190.2	192.2	195.1	197.0	200.6	204.4	207.2	209.0	-	-	-
Cs	Ba	lanthanoids	Hf	Ta	w	Re	Os	Ir	Pt	Au	Hg	T/	Pb	Bi	Po	At	R
coenium	barker		hahlum	tentalum	tengelen	thenium	merken	Hillan	platinum	gold	mercury	thelium	lood	blamuth	polenium	saladno	rad
96	56	57-71	72	73	74	76	76	77	78	79	80	81	82	83	84	85	- 86
-	-		-	-	-	-	-	-	-	-	-		-		-		
Fr	Ra	schools	Rf	Db	Sg	Bh	Hs	Mt	Ds.	Rg	Cn		F!		Lv		
BT BT	DD	89-103	104	105	105	107	108	109	11D	111	112		114		116		
0.7	00	69-143	104	743	100	100	700	109	110	1111	114		114	_	110		
		138.9	140.1	140.9	144.4	-	190.4	152.0	157.3	158.9	162.5	164.9	167.3	168.9	173.1	175.0	
anthanoids		La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	
		Inflance	cerium	prosentymium	neodynium	promethium	MACHINE.	BURDOUTH .	gestativum	tedaum	dysprosium		Wildern	Patien	phetium	Medium	
		57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	
		-	292.0	231.0	238.0	-	-	-	-	-	-	-	-	-	-	-	
ctinoids		Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr	
		admire	therum	protectinium	uranium	negtunium	plutanium	anerous	ourium	behelus	calibraium	einabeinium	ternium	mendetevium	nobelium	Investigation	
		89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	