

Sample external assessment materials mapping

GCE

Edexcel Advanced Subsidiary GCE in Chemistry (8CH01)
Edexcel Advanced GCE in Chemistry (9CH01)

October 2007

Edexcel, a Pearson company, is the UK's largest awarding body offering academic and vocational qualifications and testing to more than 25,000 schools, colleges, employers and other places of learning here and in over 100 countries worldwide. Our qualifications include GCSE, AS and A Level, GNVQ, NVQ and the BTEC suite of vocational qualifications from entry level to BTEC Higher National Diplomas and Foundation Degrees.

We deliver 9.4 million exam scripts each year, with over 3.8 million marked onscreen in 2006. As part of Pearson, Edexcel has been able to invest in cutting-edge technology that has revolutionised the examinations system, this includes the ability to provide detailed performance data to teachers.

References to third-party material made in this specification are made in good faith. Edexcel does not endorse, approve or accept responsibility for the content of materials, which may be subject to change, or any opinions expressed therein. (Material may include textbooks, journals, magazines and other publications and websites.)

Authorised by Roger Beard
Prepared by Sarah Harrison

All the material in this publication is copyright
© Edexcel Limited 2007

Contents

Introduction	1
Sample external assessment materials mapping to the specification	2
Unit 1: The Core Principles of Chemistry	2
Unit 2: Application of Core Principles of Chemistry	4
Unit 4: General Principles of Chemistry I – Rates, Equilibria and Further Organic Chemistry	6
Unit 5: General Principles of Chemistry II – Transition Metals and Organic Nitrogen Chemistry	8

Introduction

This document contains a detailed mapping of all the sample external assessment materials to the specification for the new GCE in Chemistry (8CH01/9CH01).

The purpose of this document is to show how the specification is being covered in the sample assessment materials. This will help centres identify the types of questions being asked in the exams.

Sample external assessment materials mapping to the specification

Unit 1: The Core Principles of Chemistry

Question number	Specification points covered	Total marks for question
1	1.5 a, 1.5 k ii	1
2	1.5 g	1
3	1.5 b	1
4a	1.3 b	1
b	1.7.2 e	1
5	1.4 d	1
6a	1.4 d	1
b	1.7.2 d	1
7	1.5 d	1
8	1.5 k ii	1
9a	1.5 k ii	1
b	1.5 e i	1
c	1.5 e i	1
10a	1.3 a	1
b	1.5 c	1
c	1.7.2 a, 1.7.3 a	1
d	1.7.1 b	1
11a	1.7.3 d i	1
b	1.7.3 b	1
12	1.7.3 e i	1
13	1.7.1 b, 1.7.3 b	1
Section A		21
14a	1.3 b	1
b	1.3 d	1
c(i)	1.3 e	2
c(ii)	1.3 e	1
d	1.3 j	1
e(i)	1.3 c	1
e(ii)	1.3 g	2

Question number	Specification points covered	Total marks for question
15a	1.6.3 b, c	3
b(i)	1.6.1 c	1
b(ii)	1.6.1 c	1
c	1.6.1 a	1
d(i)	1.5 b i	2
d(ii)	1.5 h	1
e(i)	1.3 d	2
e(ii)	1.5 g	1
16a	1.3 f, h	2
b	1.3 f, e	3
c	1.4 a	1
d	1.3 k	2
17a(i)	1.7.3 e ii	3
a(ii)	1.7.3 e ii	1
a(iii)	1.7.1 b	1
b	1.7.3 d iv	1
c	1.7.3 g	2
d	1.7.3 g	1
e(i)	1.7.2 e	1
e(ii)	1.7.2 e	1
18a(i)	1.4 f	1
a(ii)	1.3 d	1
a(iii)	1.4 d, c	2
a(iv)	1.4 f i	2
b(i)	1.3 e, 1.4 f i	2
b(ii)	1.4 f l	2
c	1.4 d, 1.3 e, d	1
19a	1.6.1 g	3
b	1.6.1 g	3
c(i)	1.6.1 k	1
c(ii)	1.6.1 i	1
Section B		59
Total		80

Unit 2: Application of Core Principles of Chemistry

Question number	Specification points covered	Total marks for question
1	2.3 b	1
2	2.3 b, 2.4 c	1
3	2.4 d	1
4	2.5 a	1
5	2.5 d ii, iii	1
6	2.5 b ii, iii, 2.7.1 g ii	1
7	2.7.1 g ii	1
8	2.7.1 f	1
9	2.7.1 f	1
10	2.7.1 d, e	1
11	2.7.1 a	1
12	2.7.1 e	1
13	2.7.1 g iii	1
14	2.7.1 g iii	1
15	2.6 a i	1
16	2.4 b	1
17	1.3 b	1
18	2.10.1 c i	1
19	2.12 d	1
20	2.13 d	1
21	2.13 a i, iii, v	1
22 a	2.7.2 d i, 2.10.2 c	1
b	2.10.2 c	1
c	2.10.2 d i	1
d	2.10.2 c	1
23	2.9 b	1
24 a	2.12 b iv	1
b	2.12 b iv	1
c	2.12 b ii	1
Section A		29
25 a	2.10.1 b	4
b i	2.10.1 c iv	2
ii	2.10.1 c iv	2

Question number	Specification points covered	Total marks for question
26 a i	2.5 a	1
ii	2.5 a, 2.3 a, b	2
bi	2.3 b	2
ii	2.3 a	3
iii	2.4 c	1
iv	2.4 c	1
v	2.5 a	1
27 a i	2.10.2 d i	1
ii	2.11 c, 2.11 f	4
iii	2.11 f, 2.7.2 d ii	1
iv	2.7.2 d ii, 2.10.2 d i	1
v	2.7. 2 d ii	1
vi	2.11 e, 2.8 d	3
b	2.13 a iii	2
c i	1.7.1 d ii	1
ii	1.7.1 d ii	1
Section B		34
28 a i	2.7.1 h	2
ii	2.7.2 c	1
iii	2.7.2 c	1
iv	2.7.2 c	1
b i	2.7.2 b i	2
ii	2.7. 2 a	1
iii	2.7. 2 b ii	1
iv	2.6 a iv	2
c	2.13 f	6
Section C		17
Marks		80

Unit 4: General Principles of Chemistry I – Rates, Equilibria and Further Organic Chemistry

Question number	Specification points covered	Total marks for question
1 a	4.3 b	1
b	4.3 b	1
c	4.3 b	1
d	4.3 b	1
2	4.3 f	1
3	4.3 a	1
4 a	4.4 i	1
b	4.4 j	1
5	4.5 e	1
6	4.5 e	1
7	4.6 a	1
8	4.5 a	1
9 a	4.7 e	1
b	4.7 k	1
c	1.3 d	1
10 a	4.7 i	1
b	4.7 i	1
c	4.7 j	1
11	4.8.2 a, 4.8.3 a, 4.8.4 a	1
12 a	4.8.3 d iii	1
b	1.3 g	1
c	4.8.3 d iii	1
13 a	4.8.3 c	1
b	4.8.3 d iv, 4.8.4 b ii	1
c	4.9 b i	1
14 a	4.8.1 d, 4.8.2 c iii	1
b	4.8.2ciii	1
15 a	4.8.4 d	1
b	4.8.4 d	1

Question number	Specification points covered	Total marks for question
Section A		29
16 a	4.8.4 a	1
b	4.8.3 b, 2.5 a	1
c	2.11 a	1
d	2.13 a i	4
e	4.5 d, e	5
17 a	4.6 a	1
b	4.6 a	2
18 a	1.3 b	1
b i	4.4 c, d	2
ii	4.4 j	2
iii	4.4 k	1
c i	2.7.1 b	1
ii	1.3 d, e, 2.8 a, 4.3 b	5
iii	1.4 f, 2.8 a, c	4
iv	4.3 d, f v, g	4
v	2.8 a and application of fundamental GCSE knowledge	1
vi	4.3 b	2
vii	4.7 e	1
19	4.3 a, 4.6 a, d	6
Section B		45
20a i	1.7.3 d ii	1
ii	4.8.2 c ii	1
iii	4.8.2 c iv	1
iv	4.8.2 c i	1
v	1.7.3 b	1
b i	2.12 b	3
ii	4.9 b i	1
iii	2.12 a	3
c	1.7.3 a, b, 4.8.2 a	2
d	4.8.2 c iv	2
Section C		16
Marks		90

Unit 5: General Principles of Chemistry II – Transition Metals and Organic Nitrogen Chemistry

Question number	Specification points covered	Total marks for question
1	5.3 c	1
2	5.3 d	1
3	5.3 f	1
4	5.3 e	1
5a	2.6 a i	1
b	5.3 b	1
6	1.6.2 b, 2.3 b, 5.3.2 d iii, 5.4.2 b iv	1
7	5.3.2 h	1
8	4.8.3 d, 4.8.4 b	1
9	4.8.1 b	1
10	2.5 d iv	1
11	5.4.2 b i, ii	1
12	5.4.2 b iv	1
13	4.8.4 d	1
14	4.8.1 c	1
15	4.3 j	1
16	4.8.1 d, 4.8.2 c iii	1
17a	1.6.2 b, 2.3 b, 2.4 c	1
b	1.6.2 b, 2.3 b, 2.4 c	1
18a	5.4.2 i i	1
b	5.4.2 i i	1
c	5.4.1 b iv	1
d	4.8.2 c iv	1
19a	2.5 a	1
b	5.3.2 f ii	1
Section A		25
20a	5.3 h	1
b	5.3 b	1
c i	1.3 e	1
ii	1.3 d, 5.3.1 h	2
iii	5.3.1 i	1
d	Application of fundamental chemistry knowledge	2

Question number	Specification points covered	Total marks for question
21a i	1.7.3 d ii	1
ii	1.7.3 e i	3
b i	5.4.1 b ii	1
ii	5.4.1 c	4
iii	5.4.1 c	
c i	5.4.1 c, 1.7.3 e i	3
ii	5.4.1 a	3
d	4.9 b i	1
22 a i	5.3.2 b	1
ii	5.3.2 e	1
iii	5.3.2 j	1
iv	5.3.2 d i, j	1
b i	5.3.1 c	3
ii	5.3.1 d	2
iii	5.3.1 f	1
23 a	5.4.2 h	2
b i	5.4.2 g	1
ii	5.4.2 g	1
c i	2.10.2 d iv	1
ii	5.4.2 g	2
iii	5.4.2 h	2
d	5.4.2 f	1
Section B		45
24 a i	5.3.2 a	1
ii	5.3.2 f iii	3
b i	4.8.2 c i	1
ii	4.8.2 c i	2
c	1.6.1 f	2
d i	1.5 j	7
ii	5.3.2 g ii, iii	4
Section C		20
Marks		90

October 2007

For more information on Edexcel and BTEC qualifications please contact
Customer Services on 0870 240 9800
or <http://enquiries.edexcel.org.uk>
or visit our website: www.edexcel.org.uk

Edexcel Limited. Registered in England and Wales No. 4496750
Registered Office: One90 High Holborn, London WC1V 7BH. VAT Reg No 780 0898 07