



Cambridge Chemistry Challenge Lower 6th

June 2020

Student Answer Booklet

In order to print your certificate, we need to store your name, school, and mark in a database: these details are only viewable by your school and our committee. Your participation in the competition indicates that you are happy for us to do this.

Student name _____

School _____

Date of exam _____

School year (eg year 12) _____

Signature _____

	p2	p3	p4	p5	p6	p7	p8	Total
mark	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

1(a)

(i) Equation:

[1]

(ii) RMM and number of moles:

[1]

(iii) Maximum mass formed:

[1]

(iv) Volume produced:

[1]

1(b)

(i) Equation:

[1]

(ii) Equation:

[1]

(iii) Number of volumes in the reaction mixture:

[1]

(iv) Volumes of O₂

[1]

1(c)

Model A	Model B
----------------	----------------

[3]

Model C

1(d)

Structure D	Structure E
--------------------	--------------------

[4]

Structure F	Structure G
--------------------	--------------------

1(d)

Structure H	Structure I
-------------	-------------

[4]

Structure J	Structure K
-------------	-------------

1(e)

(i) Standard enthalpy change of formation:

[2]

(ii) Standard enthalpy of combustion:

[1]

1(f)

(i) Isomers:

Marks
available

**10 marks
for all of 1(f)**

Isomer 1

Isomer 2

Isomer 3

1(f)

(ii) Isomers:

(iii) Isomers:

1(g)

(i) Same:

(ii)

(iii) Total number:

(iv) Number:

**6 marks
for all of 1(g)**

1(h) Number of days :

[2]

2(a)

(i) Equation:

[1]

(ii) Oxidised:

[1]

Reduced:

(iii) Structure:

[1]

(iv) Name:

[1]

(v) Angle:

[1]

(vi) Angle:

[1]

(vii) Unit:

[1]

2(b)

(i) Oxidation states:

[1]

(ii) Equation 1:

[2]

Equation 2:

(iii) Equation:

[1]

2(c)

(i) Equation:

[1]

(ii) Structure:

Angle:

[1]

(iii) Equation:

[1]

2(d) Formula:

[1]

2(e)

(i) Structure:

[1]

(ii) Equation:

[1]

(iii) Structure:

[1]

2(f)

(i) Structure:

(ii) Structure:

[2]

--	--