



# Cambridge IGCSE™

**CHEMISTRY**

**0620/51**

Paper 5 Practical Test

**May/June 2020**

CONFIDENTIAL INSTRUCTIONS

**This document gives details of how to prepare for and administer the practical exam.**

**The information in this document and the identity of any materials supplied by Cambridge International are confidential and must NOT reach candidates either directly or indirectly.**

**The supervisor must complete the report at the end of this document and return it with the scripts.**

## INSTRUCTIONS

- If you have any queries regarding these confidential instructions, contact Cambridge International stating the centre number, the syllabus and component number and the nature of the query.  
email [info@cambridgeinternational.org](mailto:info@cambridgeinternational.org)  
phone +44 1223 553554

This document has **8** pages. Blank pages are indicated.

## General information about practical exams

Centres must follow the guidance on science practical exams given in the *Cambridge Handbook*.

### Safety

Supervisors must follow national and local regulations relating to safety and first aid.

Only those procedures described in the question paper should be attempted.

Supervisors must inform candidates that materials and apparatus used in the exam should be treated with caution. Suitable eye protection should be used where necessary.

The following hazard codes are used in these confidential instructions, where relevant:

<b>C</b>	corrosive	<b>MH</b>	moderate hazard
<b>HH</b>	health hazard	<b>T</b>	acutely toxic
<b>F</b>	flammable	<b>O</b>	oxidising
<b>N</b>	hazardous to the aquatic environment		

Hazard data sheets relating to substances used in this exam should be available from your chemical supplier.

### Before the exam

- The packets containing the question papers must **not** be opened before the exam.
- It is assumed that standard school laboratory facilities, as indicated in the *Guide to Planning Practical Science*, will be available.
- Spare materials and apparatus for the tasks set must be available for candidates, if required.

### During the exam

- It must be made clear to candidates at the start of the exam that they may request spare materials and apparatus for the tasks set.
- Where specified, the supervisor **must** perform the experiments and record the results as instructed. This must be done **out of sight** of the candidates, using the same materials and apparatus as the candidates.
- Any assistance provided to candidates must be recorded in the supervisor's report.
- If any materials or apparatus need to be replaced, for example, in the event of breakage or loss, this must be recorded in the supervisor's report.

### After the exam

- The supervisor must complete a report for each practical session held and each laboratory used.
- Each packet of scripts returned to Cambridge International must contain the following items:
  - the scripts of the candidates specified on the bar code label provided
  - the supervisor's results relevant to these candidates
  - the supervisor's reports relevant to these candidates
  - seating plans for each practical session, referring to each candidate by candidate number
  - the attendance register.

## Specific information for this practical exam

During the exam, the supervisor (NOT the invigilator) must do the experiments in Questions 1 and 2 and record the results on a spare copy of the question paper, clearly labelled 'supervisor's results'.

### Materials and apparatus for Question 1

Each candidate will require the following materials and apparatus. Labels do **not** need to include concentrations.

hazard	materials and apparatus	per candidate	label
	hydrochloric acid of concentration 0.20 mol/dm <sup>3</sup> in a stoppered container	200 cm <sup>3</sup>	<b>hydrochloric acid for Question 1</b>
	aqueous sodium carbonate of concentration 0.10 mol/dm <sup>3</sup> in a stoppered container	100 cm <sup>3</sup>	<b>solution E</b>
	aqueous sodium carbonate of concentration 0.15 mol/dm <sup>3</sup> in a stoppered container	50 cm <sup>3</sup>	<b>solution F</b>
[F][HH][MH]	thymolphthalein indicator		
[T][C][N][F][MH][HH]	methyl orange indicator		
	50 cm <sup>3</sup> burette with clamp and stand	1	
	white tile	1	
	funnel to fill burette	1	
	25 cm <sup>3</sup> measuring cylinder	1	
	250 cm <sup>3</sup> conical flask	1	
	dropping pipettes		
	access to water and distilled water		

During the exam, the supervisor (NOT the invigilator) must do the experiments in Questions 1 and 2 and record the results on a spare copy of the question paper, clearly labelled 'supervisor's results'.

### Materials and apparatus for Question 2

Each candidate will require the following materials and apparatus. Labels do **not** need to include concentrations.

hazard	materials and apparatus	per candidate	label
[MH][N]	solid copper carbonate or basic copper carbonate in a stoppered tube	5g	<b>solid G</b>
	solid anhydrous sodium sulfate in a stoppered tube	1g	<b>solid H</b>
[MH][N]	aqueous ammonia of concentration 1 mol/dm <sup>3</sup>		
[C]	dilute nitric acid of concentration 0.5 mol/dm <sup>3</sup>		
[MH]	dilute sulfuric acid of concentration 1 mol/dm <sup>3</sup>		
	barium nitrate solution of a suitable concentration to give a positive sulfate test		
	red and blue litmus paper		
[MH]	limewater and apparatus to test for carbon dioxide		
	access to water and distilled water		
	apparatus to carry out a flame test		
	hard-glass test-tube	1	
	boiling tubes	3	
	stopper to fit boiling tube	1	
	rack of test-tubes		
	10 cm <sup>3</sup> measuring cylinder	1	
	spatula	1	
	wooden splints		
	test-tube holder	1	
	Bunsen burner and means to light it		



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## Supervisor's report

Syllabus and component number

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Centre number

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Centre name .....

Time of the practical session .....

Laboratory name/number .....

**Give details of any difficulties experienced by the centre or by candidates (include the relevant candidate names and candidate numbers).**

You must include:

- any difficulties experienced by the centre in the preparation of materials
- any difficulties experienced by candidates, e.g. due to faulty materials or apparatus
- any specific assistance given to candidates.

## Declaration

- 1 Each packet that I am returning to Cambridge International contains the following items:
  - the scripts of the candidates specified on the bar code label provided
  - the supervisor's results relevant to these candidates
  - the supervisor's reports relevant to these candidates
  - seating plans for each practical session, referring to each candidate by candidate number
  - the attendance register.
- 2 Where the practical exam has taken place in more than one practical session, I have clearly labelled the supervisor's results, supervisor's reports and seating plans with the time and laboratory name/number for each practical session.
- 3 I have included details of difficulties relating to each practical session experienced by the centre or by candidates.
- 4 I have reported any other adverse circumstances affecting candidates, e.g. illness, bereavement or temporary injury, directly to Cambridge International on a *special consideration form*.

Signed ..... (supervisor)

Name (in block capitals) .....