



**Cambridge Assessment
International Education**



Support for Cambridge schools

Resources for teaching
and learning in your school

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Cambridge Assessment International Education prepares school students for life, helping them develop an informed curiosity and a lasting passion for learning. We are part of the University of Cambridge.

Our Cambridge Pathway gives students a clear path for educational success from age 5 to 19. Schools can shape the curriculum around how they want students to learn – with a wide range of subjects and flexible ways to offer them. It helps students discover new abilities and a wider world, and gives them the skills they need for life, so they can achieve at school, university and work.

Discover the School Support Hub

The School Support Hub is our secure online site for teachers at Cambridge schools. Log in to find all the support you need to teach our programmes in one easy place.

There are over 30 000 high-quality teaching and learning resources on the School Support Hub, including schemes of work, example candidate responses, past papers and learner guides.

The School Support Hub is also a great way to keep up to date with your subject and the global Cambridge community. Why not use our online discussion forums to share ideas with other Cambridge teachers, or find answers to any questions you might have?



How do I log in?

Access the hub from any connected device at:
www.cambridgeinternational.org/support
All you need is your email address and password.

Who can use the School Support Hub?

Teachers at all registered Cambridge schools can use the School Support Hub, although it is especially important if you teach our Cambridge Upper Secondary or Cambridge Advanced stages. If you do not have a School Support Hub account, your school support coordinator will be able to set one up for you. If you do not know who your school support coordinator is, contact our Customer Services team at info@cambridgeinternational.org



Ordering extra services on the School Support Hub

To use extra services like Test Maker and Resource Plus you will need to pay a yearly subscription fee per syllabus, which provides unlimited access for you and other teachers at your school.

Your school support coordinator can place the order for your school through the 'Extra services' area on the School Support Hub: www.cambridgeinternational.org/support

Supporting you every step of the way

We offer a wide range of support so that you can give your learners the best possible preparation for Cambridge programmes and qualifications.

Download teaching resources for free from the School Support Hub at:
www.cambridgeinternational.org/support

1

Planning and preparation



- **Next steps guides** – prepare your learners for the next stage of the Cambridge Pathway.
- **Syllabuses** – be clear about what learners need to know and what they must be able to do, and how they will be assessed.
- **Specimen papers** – familiarise yourself with the overall assessment approach.
- **Schemes of work** – get ideas for teaching activities and find useful links to learning resources.
- **Teacher guides** – find extra guidance to further improve your planning.
- **Cambridge Teacher and School Leader Standards** – understand what effective practice looks like and explore self-evaluation resources.

2

Teaching and assessment



- **Support for coursework and speaking tests** – feel confident about teaching coursework and managing speaking tests.
- **Published resources** – explore the range of resources (including endorsed textbooks) developed by publishers to support your syllabus.
- **Online forums** – ask us questions about the syllabus or share ideas, challenges, resources and best practice with other Cambridge teachers.



Professional development



We believe that supporting teachers and school leaders in their professional development leads to improved outcomes for learners. See pages 16 and 17 to learn more.

- **Introductory Professional Development**
- **Extension Professional Development**
- **Enrichment Professional Development**
- **Cambridge Professional Development Qualifications.**



Learning and revision



- **Past papers and mark schemes** – familiarise your learners with exam requirements, command words in questions and how to answer questions that meet the assessment objectives.
- **Example candidate responses** – build learners' understanding of what is required to gain marks.
- **Learner guides** – share these with your learners to help them plan their revision programme and better understand what to expect in the exam.
- **Specimen paper answers** - help learners understand high-level answers.



Cambridge exams



We provide comprehensive support and guidance for all Cambridge exams officers. Find out more at: www.cambridgeinternational.org/examofficers



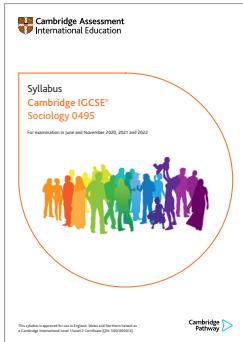
Results



- **Principal examiner reports for teachers** – get insight into common errors learners make on each part of the exam question.
- **Candidate Results Service** – this optional service allows candidates to access their results online when they are released.
- **Results Analysis** – use this service, available for nine of our most popular Cambridge IGCSEs, to identify learners' areas of strength and weakness to focus your teaching where it is needed most.

1

Planning and preparation



Syllabuses

Our syllabuses are well designed, interesting to teach, accessible to learners and regularly updated. They explain what your learners need to know, how they will be assessed, and the relationship between assessment objectives and papers.



Specimen papers

Use these papers to familiarise yourself with the overall assessment approach.

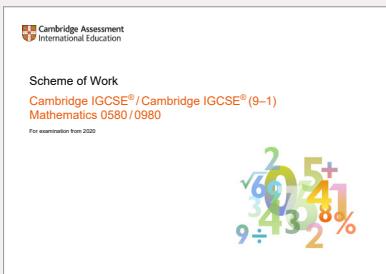


Teacher guides

Our teacher guides help you plan and organise your teaching so that your learners are prepared for their final assessment. They include teaching strategies to help you build language learning into your lessons. This can be especially useful if your learners are not first language English speakers.

Schemes of work

Our schemes of work are medium-term teaching plans that provide ideas about how to construct and deliver your Cambridge course. The syllabus is broken down into teaching units with suggested teaching activities and learning resources to use in the classroom. These documents offer advice, tips and ideas to provide you with a basis to plan your lessons.



In focus: Next steps guides

Prepare your learners for the next step on the Cambridge Pathway. Our next steps guides help teachers give learners a clear understanding of the transition between Cambridge IGCSE™ and Cambridge International AS & A Level.



In focus: Cambridge Primary and Cambridge Lower Secondary

Our Cambridge Primary and Cambridge Lower Secondary programmes include:

- Art & Design
- Cambridge Global Perspectives™
- Computing
- Digital Literacy
- English as a First Language
- English as a Second Language
- Mathematics
- Music
- Physical Education
- Science.

Teachers in schools registered for Cambridge Primary and Cambridge Lower Secondary have access to secure online support sites where they can download teaching and support resources like curriculum frameworks, teacher guides and schemes of work and assessment materials.

Download Cambridge Progression Tests from the support sites and use our online tool to help you analyse and compare results.

See: www.cambridgeinternational.org/primary or www.cambridgeinternational.org/lowersecondary

About Cambridge Primary

Messages
Art & Design
Cambridge Global Perspectives
Cambridge ICT Starters
Digital Literacy
English
English as a Second Language
Mathematics
Music
Physical Education
Science
Community
Training

Run progression tests
Learner management
Test management
Reports

Cambridge Primary
Introducing our new and improved curricula and assessments

! We are making some exciting changes to the Cambridge Primary programme, including new and improved English, mathematics and science curricula, updated support and assessments. Visit the relevant subject pages for more information.

Cambridge Primary starts learners on an exciting educational journey, helping them to become confident, responsible, reflective, innovative and engaged. It is typically for students aged 5 to 11 years.
By offering Cambridge Primary, you can provide a broad and balanced education for your learners, helping them to thrive throughout their schooling, work and life.

About Cambridge Lower Secondary

Messages
Art & Design
Cambridge Global Perspectives
Cambridge ICT Starters
Digital Literacy
English
English as a Second Language
Mathematics
Music
Physical Education
Science
Community
Training

Run progression tests
Learner management
Test management
On-screen test token management

Cambridge Lower Secondary
Introducing our new and improved curricula and assessments

! We are making some exciting changes to the Cambridge Lower Secondary programme, including new and improved English, mathematics and science curricula, updated support and assessments. Visit the relevant subject pages for more information.

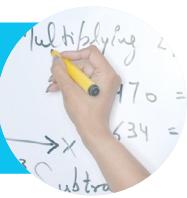
Cambridge Lower Secondary is typically for learners aged 11 to 14 years. Schools can choose the programme around how they want their students to learn, developing young learners who are confident, responsible, reflective, innovative and engaged! The programme provides a natural progression for children from lower secondary education and prepares them for post-16 education programmes that lead to formal qualifications.
By offering Cambridge Lower Secondary, you can provide a broad and balanced education for your learners, helping them to thrive throughout their schooling, work and life.

Professional development

Our Introductory, Extension and Enrichment Professional Development workshops or Professional Development Qualifications can support your planning and preparation (see pages 16 to 17 to learn more).



Teaching and assessment



The Coursework Handbook (Cambridge IGCSE® Music 0410) shows a section on 'The coursework marking process' with a flowchart:

```

graph TD
    Start[Start] --> Standardisation[Standardisation]
    Standardisation --> LevelsMarking[Levels marking]
    LevelsMarking --> IfRequired[If required by your syllabus]
    IfRequired --> CandidateReview[Briefly review candidate responses]
    CandidateReview --> RankOrdering[Rank ordering]
    RankOrdering --> InternalModeration[Internal moderation]
    InternalModeration --> ExternalAssessment[External assessment]
    ExternalAssessment --> Feedback[Feedback]
    Feedback --> Next[Click Next to learn more about the process of marking and grading at the time of marking]
  
```

The School Support Hub (Cambridge IGCSE™ foreign languages) shows a 'Speaking test video' section with a video player showing a teacher and student.

Coursework support

You can find guidance on administering, planning, delivering and marking coursework components in the coursework handbook. You will also find marked examples and examiner comments to help you understand the application of the mark scheme.

Online forums

Our online discussion forums are a great way to keep up to date with your subject. You can ask questions, get the latest information and connect with Cambridge teachers around the world.

Speaking test support

We provide a range of support for our speaking tests, including our speaking test videos, which gives guidance on preparing for, conducting and delivering the tests and how to submit marks.

Our example speaking test videos also support teachers who conduct Cambridge language speaking tests, and demonstrate different standards of candidate performance.

A Learner's Guide to the Cambridge International Project Qualification

Our interactive guide to the Cambridge International Project Qualification provides learners with high-quality guidance to support their studies. When viewed on a desktop computer it offers a range of interactive features allowing learners to make notes and record thoughts within the guide itself, or using downloadable templates.

It also includes fully integrated interactive quizzes, hover-over diagrams and downloadable support materials. You can access the guide on a mobile device to use full navigation and note-taking features. To find out more, go to <https://learning.cambridgeinternational.org>

A learner's guide to the Cambridge IPQ

The core stages of research skills:

- Selecting your topic
- Developing your research question
- Carrying out initial personal conversations
- Carrying out initial research, identifying, searching and reviewing the literature
- Choosing your methods
- Collecting your data
- Analysing your findings
- Writing up your report

We can visualise these eight stages as follows:

```

graph LR
    A[Selecting your topic] --> B[Developing your research question]
    B --> C[Thinking about the publication date]
    C --> D[Choosing your methods]
    D --> E[Collecting your data]
    E --> F[Analysing your findings]
    F --> G[Writing up your report]
  
```

CONTENTS

Stage 4. Desk Research: Identifying, searching and reviewing the literature

CONTENTS



In focus: Endorsed resources

We work with a range of publishers to produce high-quality resources to support our syllabuses. Textbooks are available before first teaching of a new or revised syllabus. Every endorsed title has been reviewed by subject experts and evaluated against detailed criteria to make sure it:

- is aligned with the syllabus
- has an appropriate focus on knowledge and skills
- promotes effective teaching and learning.

We work with publishers to develop a wide choice of resources so you can offer the most appropriate support to your learners.

How to find endorsed resources

To find endorsed resources for your subject, go to the relevant syllabus page on our website or the School Support Hub and select the 'Endorsed resources' tab.

How to recognise endorsed resources

Look out for our endorsement logos which show that a resource has passed our quality assurance process. See the example book covers (right) with our logo in the top-right or bottom-right corner.

Endorsement logos

These appear on all endorsed resources. Resources may be 'endorsed for full syllabus coverage' or for a particular syllabus section, topic or for a specific purpose, for example 'learner support'.

Information box

Each endorsed resource also has a blue box (usually on the back cover) which shows the type of endorsement and the syllabus that it supports. See below for examples of our endorsement logos and information boxes.



**Cambridge Assessment
International Education**

Endorsed for full syllabus coverage



**Cambridge Assessment
International Education**

Endorsed for learner support

This resource is endorsed by Cambridge Assessment International Education	
 Supports the full [Cambridge qualification] syllabus for examination from [year]	
 Has passed Cambridge International's rigorous quality-assurance process	
 Developed by subject experts	
 For Cambridge schools worldwide	

This resource is endorsed by Cambridge Assessment International Education	
 Provides support for [xxxxx] for the [Cambridge qualification] syllabus for examination from [year]	
 Has passed Cambridge International's rigorous quality-assurance process	
 Developed by subject experts	
 For Cambridge schools worldwide	

In focus: Online support for learners

We provide a wide range of support for those studying Cambridge Global Perspectives through our Online Learning portal.

The teaching and learning materials are available to all Cambridge schools currently offering or considering Cambridge Global Perspectives and include:

- online courses and teaching materials
- online guidance and learning activities
- space for teachers and learners to build online communities where they can share resources and work with other Cambridge schools around the world.

Teachers can also set up individual accounts for learners, encouraging the use of personal journals, collaboration opportunities and the construction of formative ePortfolios.

The screenshot shows the 'Perspectives on resources and sustainability' module. On the left, there's a sidebar with a search bar and a menu containing sections like 'Introduction', 'Using these notes', 'Videos within notes', 'Outcomes of this module', 'Perspectives on climate change', 'Applying the Critical Path', 'Effective Communication: Collaboration and Team Work', and 'Final reflection'. The main content area features a large image of a globe surrounded by green foliage, with the title 'Perspectives on resources and sustainability' at the top.

The dashboard has a header with the Cambridge Assessment International Education logo and a log-in message. Below it, there are four main sections: 'Professional Development' (with an icon of people), 'Student support' (with an icon of a student), and three resource sections: 'My resources' (with icons of books and a globe), 'IGCSE Global Perspectives (for first examination in 2018)' (with an icon of a globe and a book), 'AS & A Level Global Perspectives & Research' (with an icon of a globe and a book), and 'A Level: A Learner's Guide to the Cambridge Research Report' (with an icon of a globe and a book).

The activity page is titled 'Promoting ethical tourism (1)'. It includes a video thumbnail for 'Why sustainable tourism?' and a list of tasks: '1. Watch the following short video produced by the Travel Foundation for people involved in the travel industry. It is designed to encourage travel businesses to develop an ethical approach to their tourism business.'

How can you get access to the Online Learning portal?

Register for access at learning.cambridgeinternational.org and go to the 'Student Support' section. Once registered, teachers can request individual accounts for their learners.





Resource Plus

Resource Plus gives you access to high-quality videos, ready-made lesson plans and teaching materials to help you deliver engaging lessons and explain challenging topics and skills to your learners. It also includes past paper questions and mark schemes, arranged by topic, so you can identify areas where your learners are struggling and help them prepare for their exams.

Resource Plus is available for some of our most popular syllabuses.

Cambridge IGCSE:

- Biology
- Business Studies
- Chemistry
- Combined Science
- Co-ordinated Sciences
- First Language English
- Literature in English
- Mathematics
- Physics.

Cambridge O Level:

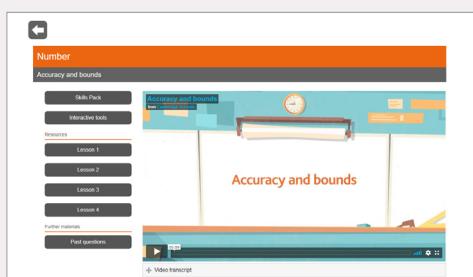
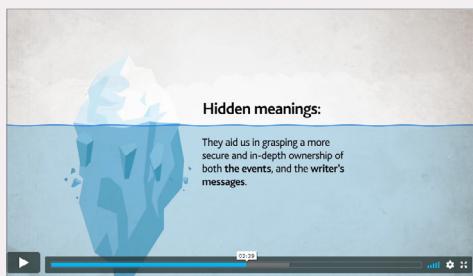
- Biology
- Chemistry
- Literature in English
- Physics.

Cambridge International AS & A Level:

- Biology
- Chemistry
- Mathematics
- Physics.

To find out more visit:

www.cambridgeinternational.org/resourceplus



Professional development

Our Introductory, Extension and Enrichment Professional Development workshops or Professional Development Qualifications can support your planning and preparation (see pages 16 to 17 to learn more).



Learning and revision



Past papers and mark schemes

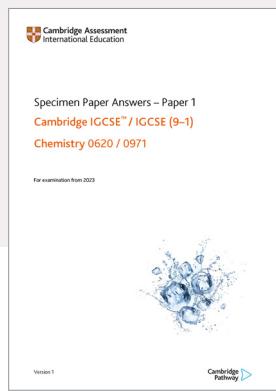
Past papers help your learners become familiar with exam requirements and command words in questions. Mark schemes explain how learners should answer questions to meet the assessment objectives.

Example candidate responses

These booklets use examples of candidates' work to show how different levels of performance (high, middle and low) relate to the subject's curriculum and assessment objectives. Each candidate response comes with examiner comments that explain where and why marks were awarded.

There are also notes to explain how the candidate could have improved their response, as well as common mistakes that learners make. This will help you understand the standard required to achieve marks, beyond the guidance of the mark scheme.

In focus: Specimen paper answers



Specimen paper answers booklets aim to exemplify standards and include examples of very good answers to questions in specimen papers, providing teachers with guidance on what is expected in the exam.

You can find all these resources on the School Support Hub:
www.cambridgeinternational.org/support





Test Maker

Test Maker is our online service that makes it easy for teachers to create high-quality, customised practice tests for their learners using Cambridge questions.

Test Maker is available for some of our most popular Cambridge IGCSE syllabuses:

- Biology
- Business Studies
- Chemistry
- Mathematics
- Additional Mathematics
- Physics.

How can Test Maker help you?

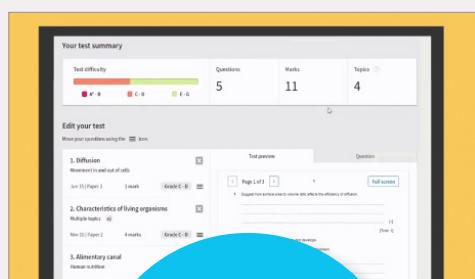
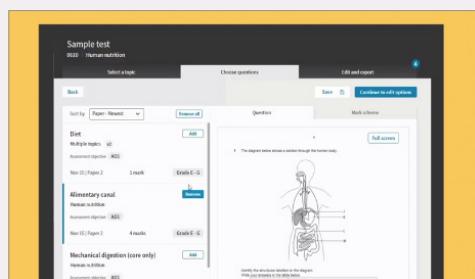
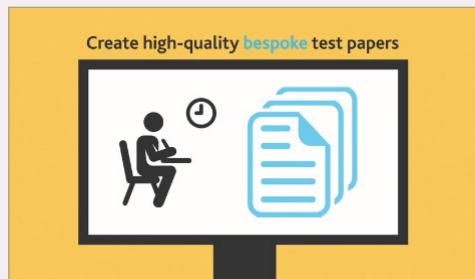
- **Create test papers easily** – the clear design and layout of Test Maker makes it easy to find the questions you need and build your paper. Choose from 500 past paper questions for each syllabus.
- **Check your learners' knowledge and understanding** – search for questions by topic to test specific areas of syllabus content.
- **Tailor tests to your learners' needs** – design a test for your whole class, or create individual tests for each learner. You can select questions depending on the level of difficulty and the assessment objectives they test.
- **Log on at any time, wherever you are** – access Test Maker using any connected device.
- **Share tests with your learners, or save them for later** – you can download tests in PDF or Word document format, or save them to use later.

How to get Test Maker

There is a yearly subscription fee per syllabus for Test Maker, which provides unlimited access for you and other teachers at your school. Your school support coordinator can order Test Maker through the 'Extra services' area on the School Support Hub.

To find out more, visit:

www.cambridgeinternational.org/testmaker



Interested in
Test Maker?

Start your 30-day
free trial today

Professional development

Our Introductory, Extension and Enrichment Professional Development workshops or Professional Development Qualifications can support your planning and preparation (see pages 16 to 17 to learn more).



Cambridge exams



We offer support and guidance for all Cambridge exams officers. To find all the resources in this section, go to: www.cambridgeinternational.org/examsOfficersGuide

Getting to know the Cambridge Exams Cycle

Welcome to the course

My name is Amy Cook. I am the training coordinator for exams officers. I have been working for Cambridge International since May 2016 and before this, I taught English as a foreign language.

I monitor the [course forum](#) for any questions you ask and find the answer for you from our teams of experts. If you have any questions about administering our exams, here is the place to get the answer!

Course content

This Course is the place to find all the information on administering Cambridge exams. We have gathered all the information from the Cambridge Handbook and our public website, including all the videos, factbooks, administrative forms, checklists and guides that you need to successfully prepare for, and run our exams.

The course is split into modules which detail our main processes and regulations. Each module contains a video, a summary of the key points, plus a reflection exercise to help you check that your centre is following the correct procedures. Some modules come with a quiz to make sure you understand our main regulations.

There is a forum in this course for you to ask any questions you have about the training modules.

After you have accessed one module in the course you will be able to access a certificate of participation.



Online training

Our online training is free to access and available to all exams officers, new or experienced. We offer interactive webinars and self-completion courses on all our key regulations and processes.

Video tutorials

Find a wide range of video tutorials on the Cambridge Exams Officers' Guide on our website at: www.cambridgeinternational.org/eoguide

Topics include Key Times, receiving and storing question papers, packing and sending scripts and submitting enquiries about results.

Cambridge Handbook (International)
Regulations and guidelines for administering Cambridge exams
Valid for exams in 2018

Cambridge Guide to Making Entries
Including rules and options codes (June series)
Downloadable (Administrative user)

CIEDirect
The online tool for Cambridge Exams Officers

Last login: Wednesday, 14 December 2016 - 06:15:15

Welcome to CIE Direct

Latest bulletins | View all bulletins | Log out

Administrator events

CIE Direct has been updated. You can now:

- Keep an eye on upcoming events via the 'Calendar' dashboard.
- Check the status of entries via the 'Dashboard'.
- Check the status of entries via the 'Dashboard'.
- Create timetables based on specific requirements.
- Print individual entries.
- Include timetable dash reports.
- Include internally assessed marks value.
- Print forecasted grades online.

Download and upload files

Download and upload files using the dashboard.

View entries and results

View entries and results by qualification or by Candidate.

Manage the Candidate results website

Set up and administer access to your Candidate results website.

CIE Direct Feedback

We would like to hear what you think of the changes that we have made to CIE Direct. If you have any comments or suggestions, or if you would like to share tips, please let us know by emailing us to the section of Ask CIE.

Guidance for administering Cambridge exams

Our *Cambridge Handbook* contains all the information you need to meet our regulations and manage a successful exam series. You can download the latest copy from the Cambridge Exams Officers' Guide web pages.

The *Cambridge Guide to Making Entries* tells you exactly how to enter candidates for our exams. This is available from Cambridge International Direct.

Cambridge International Direct

Our secure online tool for all Cambridge exams officers to:

- submit, amend and withdraw entries
- submit internally assessed marks and forecast grades
- download results
- create centre-specific timetables
- control access to the Candidate Results Service
- submit enquiries about results
- download the *Cambridge Guide to Making Entries* and statements of entry.

In focus: Cambridge Exams Officers' Guide



You can find a step-by-step guide at www.cambridgeinternational.org/examofficersguide

Go to the relevant phase of the Cambridge Exams Cycle to access our key administrative documents, forms and a wide range of support materials. Below we focus on Phase 4 and Phase 5.

Phase 4 – Before the exams: Invigilating Cambridge exams

The menu shows all the **Exam Cycle phases** from 'Phase 1 – Preparation' through to 'Phase 6 – Results and certificates'.

Your role

As an **invigilator** you must:

- ▶ give all your **candidates** the same exam experience
- ▶ make sure the security of the exam is maintained before, during and after an exam
- ▶ prevent and report suspected **malpractice**
- ▶ know how to deal with the unexpected
- ▶ help organise candidates at the start and end of the exam
- ▶ provide the correct information and material for each exam, helping prevent administrative errors.

A useful presentation, **Invigilating Cambridge exams** is available to help train invigilators and make sure they are comfortable in this role.

Phase 5 – Exam day: Running exams

The '**Administrative forms**' page lists all the important forms exams officers and invigilators might need to fill in before, on and after the exam day.

Supplementary Attendance Register - Exam Day - Form 1

Supplementary Multiple-Choice Answer Sheet - Exam Day - Form 2

On each page, exams officers can download a range of materials, like our **Exam Day Checklist** and **Candidate Warning posters**.

You can find our **Additional Materials List** on both Phase 4 and Phase 5 web pages. This document tells you what extra materials candidates need in the exams, including whether they are allowed to write on the question paper directly or need an answer booklet.



Results



Candidate Results

Cambridge Assessment International Education

Your Results | What's Next?

CANDIDATE NAME (Candidate no. 521)
Inter International School (Centre no.00000) [logout](#)

Your Results: November 2017

Examination	Qualification	Grade Awarded
Economics	(0455) IGCSE	Results to be released
English as a Second Language (Count-in Speaking)	(0511) IGCSE	Results to be released
Mathematics (Without Coursework)	(0580) IGCSE	Results to be released
Business Studies	(0450) IGCSE	Results to be released
Accounting	(0452) IGCSE	Results to be released
Chemistry	(0620) IGCSE	Results to be released
Additional Mathematics	(0606) IGCSE	Results to be released
Biology	(0610) IGCSE	Results to be released

Logged in as: Malcolm Rudden, White Friars College, Centre 47951 My Centre Details Log out

Home | Bulletins | My Messages | Administer Exams | Support Materials | Ask CIE | Dashboard | Special Consideration Online | Results | File Transfers | Candidate Results website | Computer Based Testing

Result Analysis

Welcome | Subjects | Candidates | Administration Series : November 2015

Results overview

School: White Friars College Data correct as of 15 January 2016

PHYSICS
19 candidates achieved a grade A*

Qualification	Entries
IGCSE PHYSICS (0612)	37
IGCSE CHEMISTRY (0620)	40
IGCSE BIOLOGY (0610)	38
IGCSE MATHEMATICS (WITHOUT COURSEWORK) (0580)	59
IGCSE BUSINESS STUDIES (0450)	25

Candidate Results Service

We offer a service which allows candidates to access their results online when they are released. Schools have the flexibility to choose whether they want to offer this service to their students.

If a school chooses to use the Candidate Results Service, they can control:

- which students have access
- when students view their results.

The school exams officer can manage this service through the 'Candidate Results website administration' page on Cambridge International Direct. You can find more information about this service, as well as a video explaining how students can access their results, in the Cambridge Exams Officers' Guide on our website.

Results Analysis

Detailed information about your learners' exam performance at Cambridge IGCSE is available through Results Analysis.

This service helps you understand in more detail how your students are learning, and how they have performed in each area of the syllabus.

Use it to identify areas of strength and weakness, and focus your teaching where it is needed most. Results Analysis is available for Cambridge IGCSE Accounting, Additional Mathematics, Art & Design, Biology, Business Studies, Chemistry, First Language English, Mathematics and Physics.

To find out more, visit:
www.cambridgeinternational.org/resultsanalysis





In focus: Principal examiner reports for teachers

Our principal examiners write detailed reports describing learners' overall performance in each part of the questions. The reports give insight into common learner misunderstandings, which you can explore in lessons.

Use these to better understand what our examiners are looking for from candidates and where the common problems occur. You can also share them with learners in class before the exam.

The image shows a comparison between a Cambridge IGCSE Mathematics syllabus and a corresponding Principal Examiner Report for Teachers.

Syllabus: Cambridge IGCSE® Mathematics 0580. For examination in June and November 2020, 2021 and 2022. It features a decorative graphic of mathematical symbols like ln(x), +, r, θ, e, tan, f(x), Zn!, and !.

Principal Examiner Report: Cambridge International General Certificate of Secondary Education 0580 Mathematics June 2015 Principal Examiner Report for Teachers. It includes sections for **MATHEMATICS**, **Paper 0580/11 Paper 11 (Core)**, **Key Messages**, **General Comments**, **Comments on Specific Questions**, and **Question 1** through **Question 17**. The report provides analysis of candidate performance, common misconceptions, and specific question comments.

Annotations:

- A callout box highlights: "Key issues from a particular paper are described in detail by the principal examiner."
- A callout box highlights: "An overview of the questions is given alongside examples of questions that were answered well and questions that candidates found more challenging."
- A callout box highlights: "Issues on specific questions are highlighted alongside the common misconceptions."

Professional development

Our Introductory, Extension and Enrichment Professional Development workshops or Professional Development Qualifications can support your planning and preparation (see pages 16 to 17 to learn more).

Professional development



We believe that supporting teachers and school leaders in their professional development leads to better learner outcomes and improved school performance. We offer a wide range of online tutor-guided and face-to-face professional development, so you can find something to suit you, whatever your needs and experience.



Introductory Professional Development

Our Introductory courses and workshops will help you become familiar with our approach to teaching and learning, as well as the content and assessment structure of your syllabus.

You will also learn about the support and resources we offer, and reflect on different teaching approaches. This will help you teach our programmes with greater confidence.

Recommended for: Teachers who are new to Cambridge International or to a specific syllabus.

Extension Professional Development

Our Extension courses and workshops will give you a deeper understanding of your syllabus. You will learn more about the assessment for your syllabus, including what learners have done well in previous exam series and what they have struggled with. You will also find out about any updates to the syllabus and share experiences with other Cambridge teachers.

This will help you plan your lessons more effectively and prepare your learners for their assessment.

Recommended for: Teachers who have been teaching Cambridge programmes and qualifications for at least one year or one exam cycle.

Enrichment Professional Development

Our Enrichment workshops encourage teachers and school leaders to reflect on their professional practice and develop practical strategies to use in their schools. Each workshop focuses on a specific skill or concept in teaching and learning. Some workshops focus on a particular subject or syllabus.

Recommended for: Teachers and school leaders who want to transform their approach to teaching.

Cambridge Professional Development Qualifications (PDQs)

Cambridge PDQs are available to teachers and leaders to enhance their practice and help them to:

- engage critically with relevant concepts, principles, theories and international best practice
- apply new ideas and approaches in reflective practice
- evaluate experiences and outcomes to plan further development
- improve the standard of their teaching and leadership to enhance the quality of their students' learning.

Cambridge PDQs cover four themed areas:

- Teaching & Learning
- Teaching Bilingual Learners
- Teaching with Digital Technologies
- Educational Leadership.

We offer a Certificate and Diploma in each area.

Recommended for: Practising teachers and education leaders. Cambridge PDQs are relevant to all general education teaching and learning contexts. They can be run as in-house programmes at a Cambridge school or teachers can enrol for a course at a Cambridge-approved centre.

The booklet cover features a smiling man in a blue shirt, the title 'Cambridge Professional Development Qualifications', and the tagline 'Enhancing teaching and leadership practice to improve student outcomes'. The page 2 spread includes:

- What are the features of Cambridge PDQs?**
 - Cambridge PDQs are relevant to all education teaching and learning contexts.
 - For practising teachers and education leaders.
 - Based on three learning and assessment modules.
 - Assessments include evidence of practice, learning and reflection.
- Cambridge PDQ programmes are quality assured by Cambridge International.**
 - Developed and assessed by appointed Cambridge Professional Leaders.
 - Set by a panel of Programme Leader who has been selected for their expertise and experience.
 - Made up of a blend of guided, individual, collaborative and self-directed learning, all supported by school-based mentoring.
- To support progression, we:**
 - Provide clear learning outcomes, key concepts and portfolio activities to frame learning.
 - Provide guides on essential aspects and learning.
 - Offer regular online induction courses for Programme Leaders.
 - Encourage networking and sharing of professional learning experiences.
- Cambridge PDQs develop Cambridge school leader and teacher attributes, encouraging:**
 - Confidence in their leadership role and context.
 - Confidence in teaching their subject and engaging each student.
 - Responsibility for the well-being, development and performance of learners.
 - Reflective in improving their leadership through learning, reflecting and acting on feedback.
 - Innovative in addressing leadership tasks and challenges.
 - Engaged in their teacher professional development to improve learning outcomes.
- Cambridge PDQs help schools to become more:**
 - Confident in teaching their subject and engaging each student.
 - Responsive by responding to and meeting the needs of others.
 - Innovative by challenging themselves, developing their practices and encouraging others to do the same.
 - Engaged professionally, personally and socially, ready to make a difference.

Learn more! Go to www.cambridgeinternational.org/support-and-training-for-schools/professional-development

School Improvement services

Our School Self-Evaluation and School Consultancy services are designed to help Cambridge schools review their performance and identify ways to become more effective.

Throughout the School Self-Evaluation process, we work with schools to help them recognise and celebrate their strengths, and identify areas for improvement. Schools then have the opportunity to use our School Consultancy service, working with Cambridge-accredited consultants to plan and implement change.

Find out more: www.cambridgeinternational.org/school-improvement

The booklet cover features a smiling boy in a school uniform, the title 'School Improvement services', and the tagline 'Helping schools improve through reflective practice'. The page 2 spread includes:

- Cambridge Assessment International Education**
- School Improvement services**
- Helping schools improve through reflective practice**

Engage with the global Cambridge community

Cambridge schools benefit from being part of a global community of over 10 000 schools in 160 countries. We encourage our teachers and school leaders to share views, information and resources, and learn from one another.

Cambridge Schools Conferences

Our Cambridge Schools Conferences are an opportunity for teachers and school leaders from different countries and contexts to share knowledge and discuss common challenges in education. We run three conferences every year, each in a different location around the world.

Our conferences combine education debate with practical workshops, and also provide teachers with the opportunity to build a support network of peers from around the world.



Social media

We encourage members of the Cambridge community to share their ideas and experiences with us and each other on our social media platforms.



LinkedIn

You can keep up to date with all the latest news from Cambridge International by following our company page: www.linkedin.com/company/cambridgeinternational



Twitter

Follow **@CambridgeInt** for all the latest news and information on our programmes and qualifications, professional development opportunities and training events.



Facebook

Catch up with what Cambridge learners are talking about on our Facebook page at: www.facebook.com/cambridgeinternational.org

Staying in touch with Cambridge International

Look out for our regular communications to help you stay up to date with news from Cambridge International.

Cambridge Outlook – our magazine for Cambridge schools

We will send *Cambridge Outlook* to your school three times a year. We welcome contributions to the magazine. To suggest an idea for an article, please email outlook@cambridgeinternational.org

Cambridge Outlook eNews – a monthly eNewsletter

This eNewsletter contains the latest news from Cambridge International. Join the mailing list at www.cambridgeinternational.org/newsletters and encourage the other teachers in your school to sign up too.

Cambridge Exams Officer eNews – a monthly newsletter

We automatically send this newsletter to the exams officer at your school at the beginning of each month. This essential resource contains key dates and useful reminders to help them administer Cambridge exams. If the exams officer at your school is not receiving this newsletter, please ask them to contact us at info@cambridgeinternational.org



The screenshot shows the Cambridge International website's 'What's new September 2021' page. The sidebar on the left lists categories such as News, Latest news, Blog, Newsletters, Sign up to our eNewsletters, Media contacts, What's new September 2021 (with sub-options for Cambridge Primary, Lower Secondary, IGCSE, O Level, International AS & A Level, Syllabus changes, and E-updates), and a general News category. The main content area features a large photo of two children writing. Text on the page discusses the commitment to improving qualifications and support, mentions the publication of syllabus changes twice a year, and provides information about staying updated with changes to syllabuses and teacher support services.

Sign up for syllabus updates

To keep up to date with the latest news and updates to the subjects you teach, visit the 'What's new' section of our website at www.cambridgeinternational.org/new

You can also sign up for email notifications of changes to subjects in your area at: www.cambridgeinternational.org/syllabusupdates



How to order additional teaching resources

We charge for a small number of our resources as listed in our catalogue. The catalogue and order form are available at www.cambridgeinternational.org/orderpub

Publications Order Form - For Institutions registered with Cambridge.

If your institution is not registered with Cambridge please use the appropriate order form, which you can find here:
www.cambridgeinternational.org/orderpub

Please ensure you order only from the latest catalogue which can also be found in this location.

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> Benefits for teachers
> Order publications

Order publications

Cambridge syllabuses, mark schemes, past papers, subject reports and example candidate responses booklets are available from our Publications department together with coursework training handbooks and other support materials. Price lists are available to download from the list below. Please see our ordering instructions below before placing an order.

[Cambridge Publications Catalogue April 2014 \(PDF, 7MB\)](#)
[Cambridge Publications Ordering Instructions April 2014 \(PDF, 36KB\)](#)
[Cambridge Publications Order Form - private candidates and institutions not registered with Cambridge only April 2014 \(PDF, 55KB\)](#)
[Cambridge Publications Order Form - writable for schools registered directly with Cambridge only April 2014 \(PDF, 171KB\)](#)

Please read the instructions before completing the order form and make sure the *Catalogue of Resources* you are ordering from is the most recent issue.

If you are an individual or a school that is not registered with Cambridge International you can still purchase specific items. Please make sure you use the correct online form for this on the website indicated above.

“ A Cambridge International education provides students with an outstanding education and helps them become respectful and tolerant human beings. It promotes critical thinking, creativity and a global view in our students.”

We are committed to making our documents accessible in accordance with the WCAG 2.1 Standard. We are always looking to improve the accessibility of our documents. If you find any problems or you think we are not meeting accessibility requirements, contact us at info@cambridgeinternational.org with the subject heading: Digital accessibility. If you need this document in a different format, contact us and supply your name, email address and requirements and we will respond within 15 working days.

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