Automated A Level Exams Delivering & Marking Platform

An intelligent solution for delivering and marking mock examinations in schools and colleges

For Teachers: Management & Analytics | For Students: Exams & Feedback

CONTENTS

PROCESSING TIME

10-30

Minutes

SUBJECTS SUPPORTED

STEM+

01

THE EXAM PREPARATION GAP

The Exam Preparation Gap

Limited Practice

Teachers can only assign a handful of mocks per year due to marking workload. Students never get enough exam practice before the real one.

Delayed Feedback

Students wait days or weeks for marked papers, missing the critical window for improvement while errors go uncorrected.

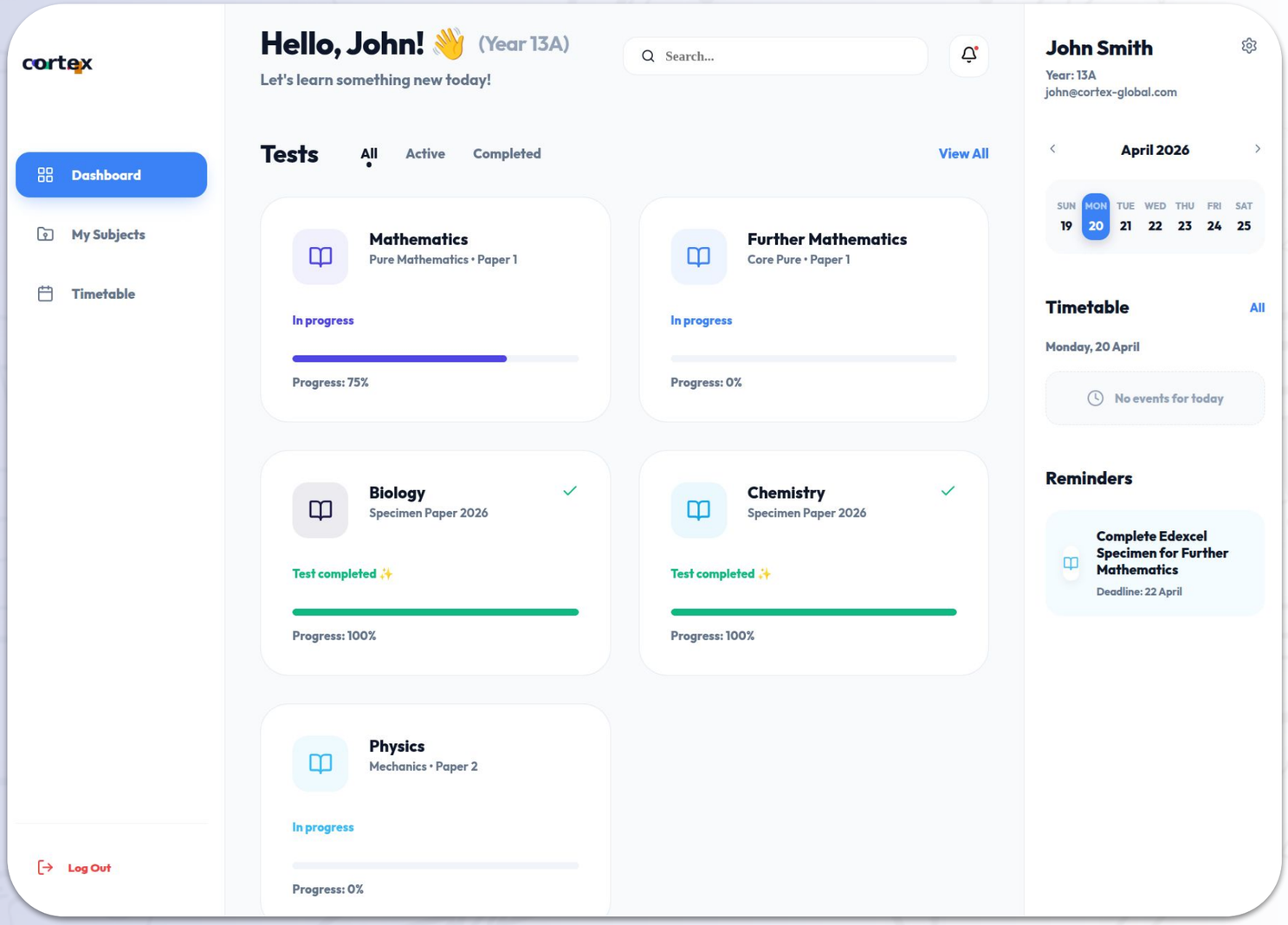
Inconsistent Grading

Human markers vary in standards, leaving students unsure of their true level. Inconsistent feedback hinders progress.

This results in students entering final exams under-prepared and under-confident.

02

THE SOLUTION



Platform Overview

Instant Automated Feedback

Cortex processes student work and delivers detailed marks and examiner-level comments within 10-30 minutes of submission.

Multi-Subject Support

All STEM subjects:

Mathematics, Further Mathematics, Physics, Chemistry, Biology, and more. Full A Level assessment objective alignment.

Cross-Platform Access

Access from any device: classroom PCs, laptops, mobile phones, and tablets. Students can practise anywhere, anytime.

Academic Integrity

Unique test generation for every sitting prevents plagiarism and ensures every student receives a fresh, fair assessment.

10-30 min processing

100% accessibility

Unlimited subject flexibility

Platform Architecture

Teacher Account

MANAGEMENT & ANALYTICS

Test Creation

Import from Edexcel, OCR or create unique variants from your own materials

Publish Control

Publish to specific students or classes with precise activation timing control

Automated Marking

Review and edit automatically marked student work with full override capability

Class Analytics

Visual data on class performance, common mistakes, and progress trends

Report Export

Platform, email, or PDF reports for printing and record-keeping

Sync

Student Account

EXAMS & FEEDBACK

Any Device Access

Desktop, laptop, or mobile phone - secure login from anywhere

Flexible Submission

Choose subjects and tasks with hybrid digital and handwritten answer modes

OCR/HCR Photo Upload

Photograph handwritten work for OCR/HCR analysis

Instant Results

Receive detailed automated feedback within 10-30 minutes of submission

Profile Management

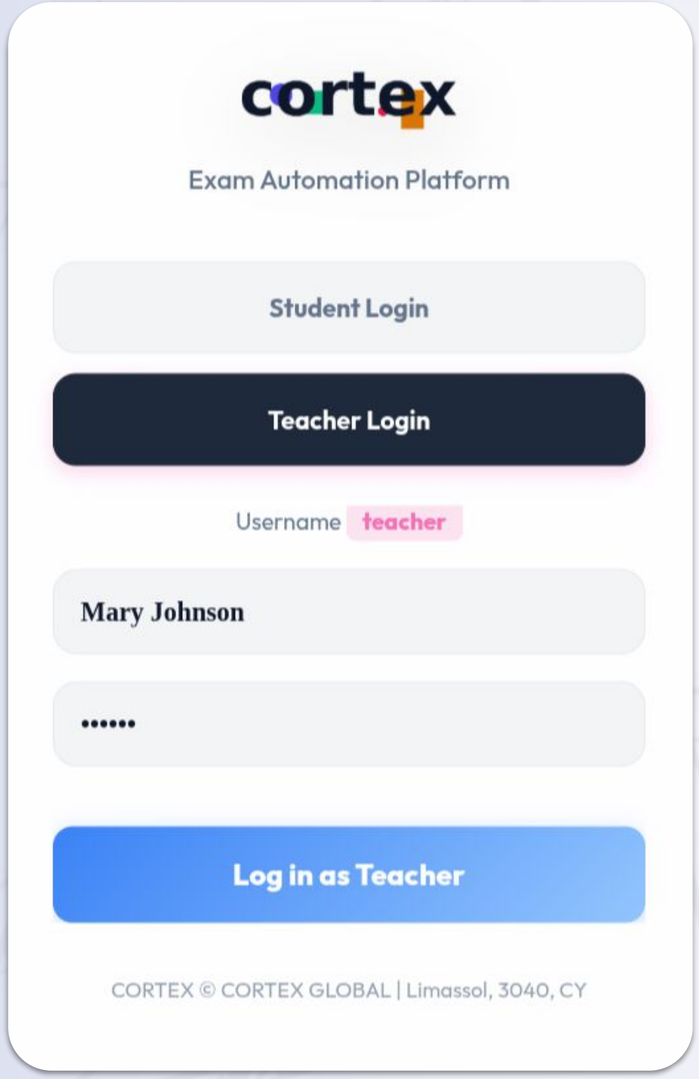
Simple registration, personal data management, and class assignment

03

TEACHER ACCOUNT

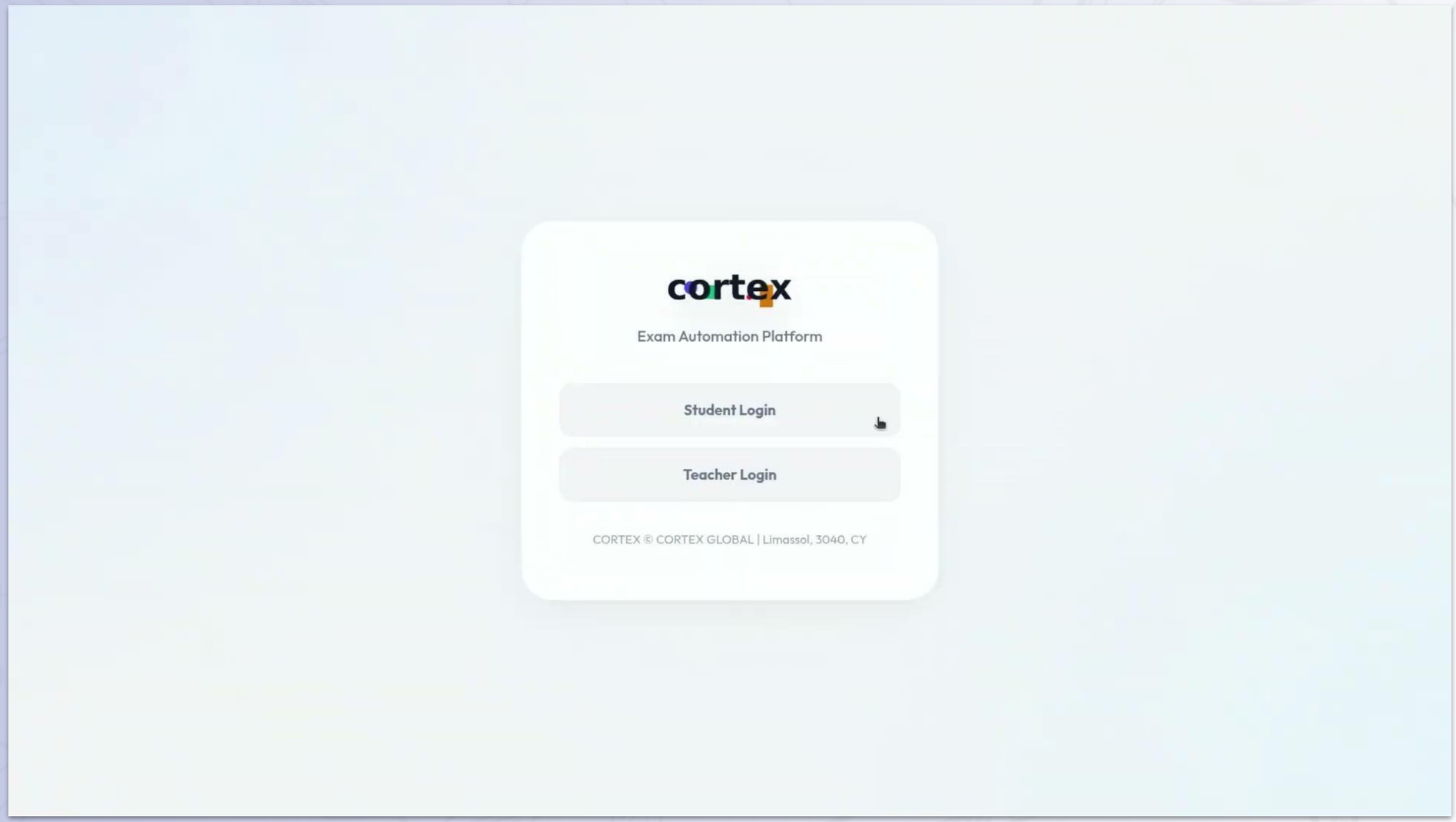
From test creation to class analytics in one seamless flow

Mocks Creation | Automated Grading | Analytics



Teacher Account Video

Click to see the demo



Teacher Flow - Test Creation & Management

1. **Source Integration**

   Import content from Edexcel, OCR and other textbooks to create mock assessments.

2. **Create Unique Variants**

   Develop bespoke exam papers not in public databases. Prevents plagiarism and ensures integrity.

3. **Save as Draft**

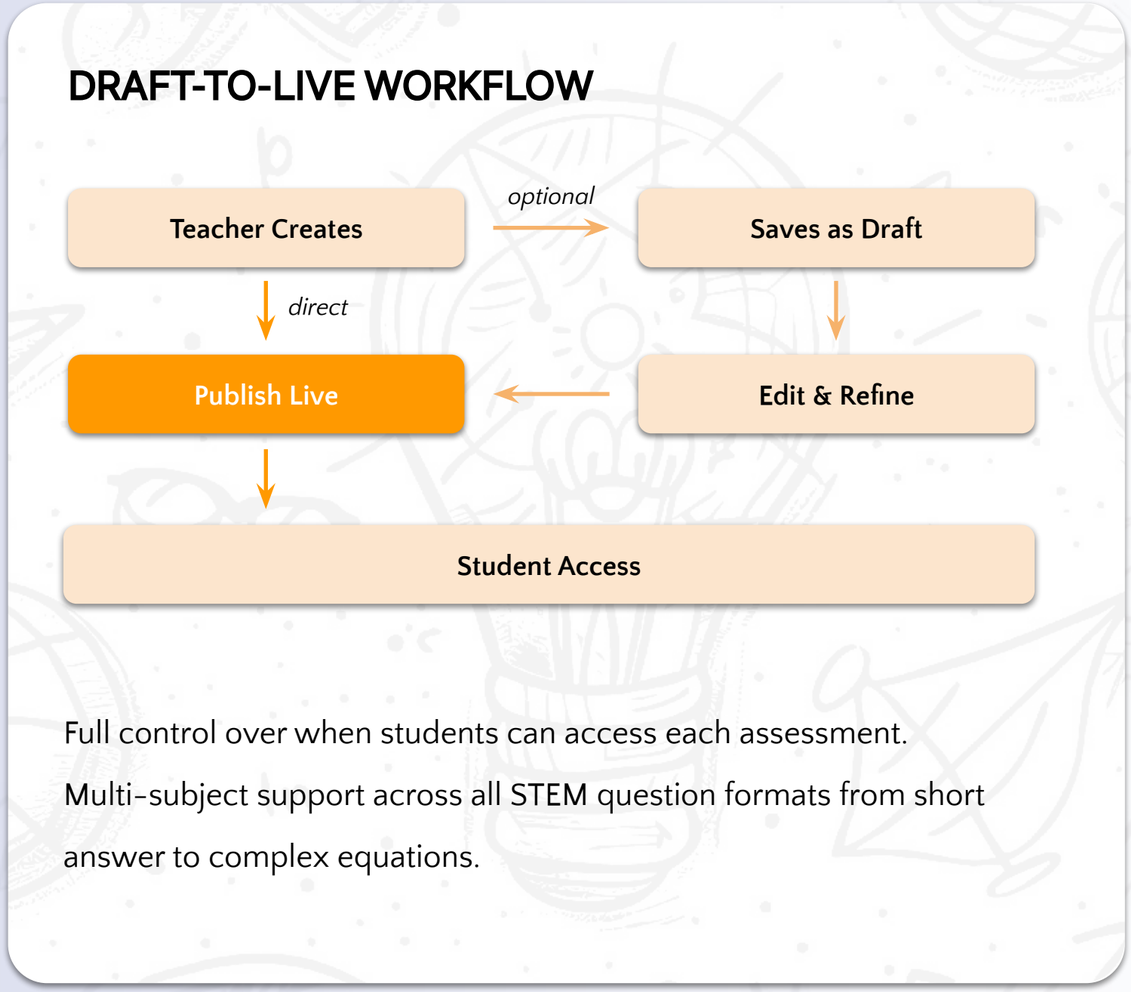
   Save tests during development. Edit and refine questions and mark schemes before publishing.

4. **Publish Live**

   Publish to specific students or classes with precise activation timing. Full control over access.

5. **Students Access**

   Test becomes available to students immediately. Real-time sync across all devices.



Full control over when students can access each assessment. Multi-subject support across all STEM question formats from short answer to complex equations.

Teacher Flow - Automated Marking & Analytics

Automated Assessment

Examiner-Level Grading

Criterion-based marks and feedback aligned with A Level assessment objectives. Detailed comments written for each criterion with marks awarded per component.

10-30	100%	STEM+
min processing	automatic grading	subjects

Teacher as final authority:

Full power to review, override, or adjust automatically generated marks and comments, ensuring 100% accuracy for every student.

Analytics & Insights

Data-Driven Insights

Class Overview

Visualise performance data for the entire class. Identify common knowledge gaps and trending errors across cohorts.

Individual Statistics

Detailed progress analysis per student with submission history, performance trends, and targeted recommendations.

Key Metrics

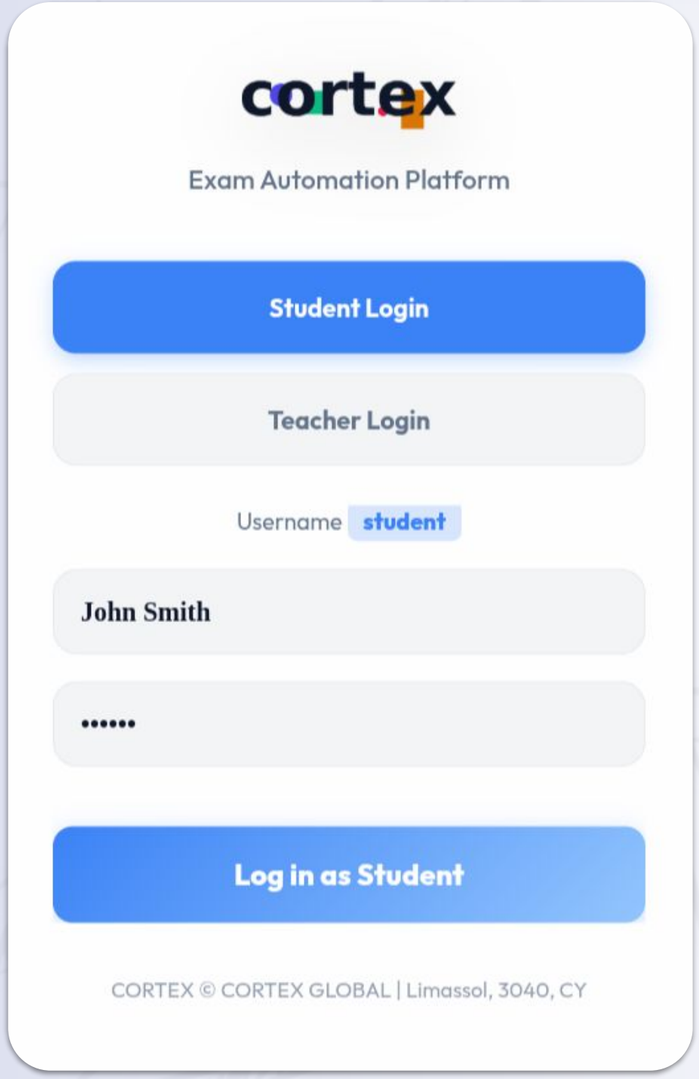
- Class average score
- Problem topic ID
- Improvement tracking
- Common mistakes
- Progress over time
- Class insights

04

STUDENT ACCOUNT

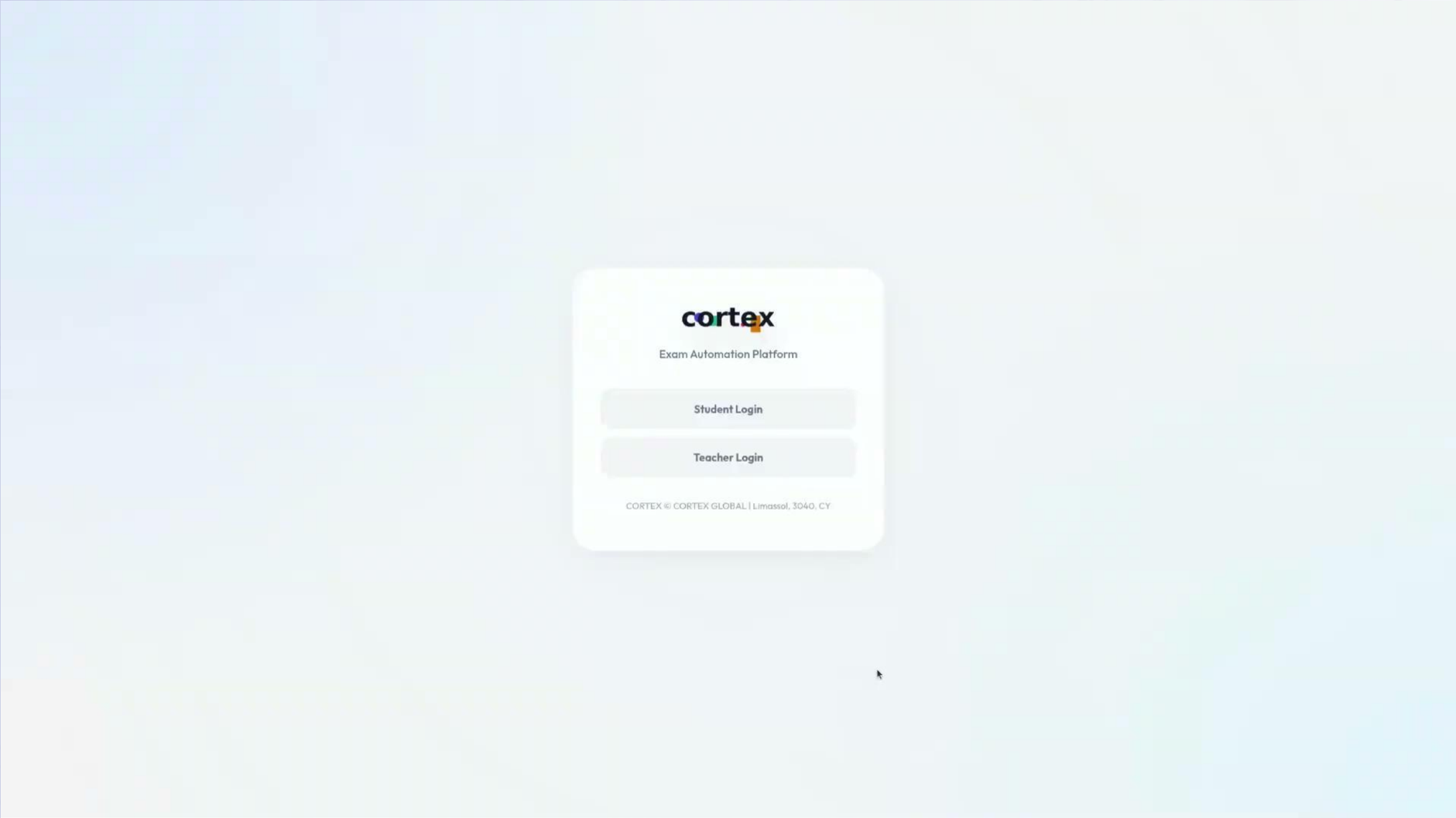
Seamless exam-taking with instant, actionable feedback

Cross-Platform | Handwritten Tasks Upload | Instant Feedback



Student Account Video

Click to see the demo



Student Flow - Cross-Platform Access & Submission

ANY DEVICE ACCESS

Desktop PC
Classroom / Lab

Laptop
Home / School

Smartphone
Anywhere

Tablet
Flexible Learning

FLEXIBLE SUBMISSION

Digital Input

Type answers directly on the platform for short-response questions and essays. Ideal for text-based tasks and structured responses.

OCR/HCR Photo Upload

Photograph handwritten work on your mobile and upload for automated analysis. Perfect for diagrams, equations, and sketches.

Student Flow - Instant Feedback & Reports

10-30
Minutes for results

Per-Question Analysis
with mistakes breakdown

Mark Justification
based on criteria

Multi-Access
Platform, email, PDF

REPORT STRUCTURE

1
Overall Grade
Summary score with class percentile and performance band placement.

2
Per-Question Breakdown
Detailed comments for each question with marks awarded and specific feedback.

3
Recommendations
Targeted advice on areas to focus on before the next assessment attempt.

4
Class Comparison
Anonymous benchmarking against peers for contextual performance insight.

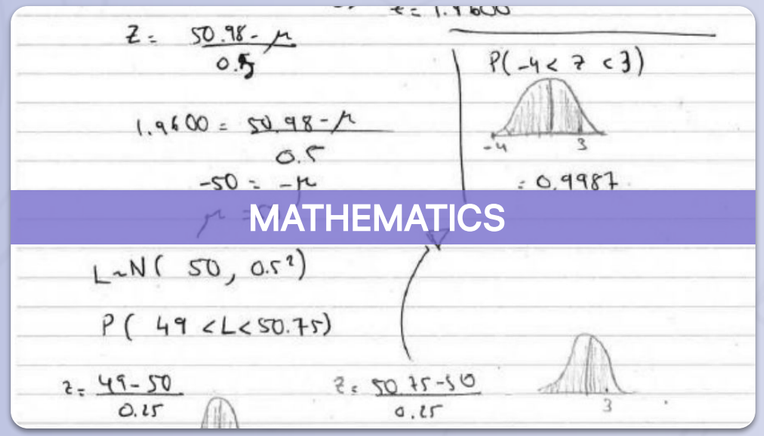
Student Value: Instant feedback enables rapid identification of knowledge gaps and focused improvement

05

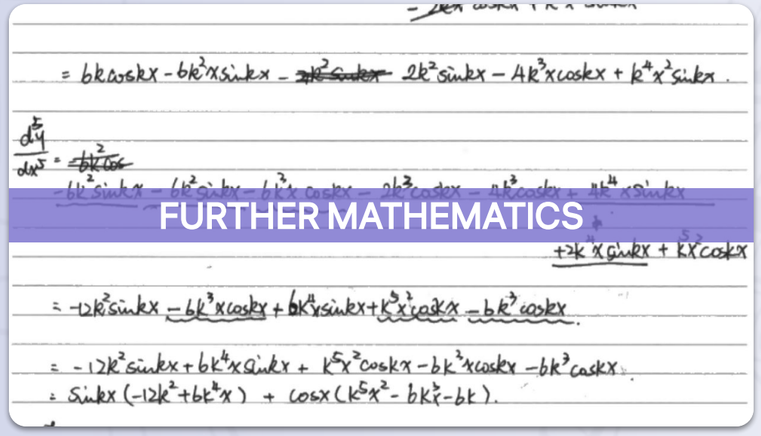
SUBJECTS & KEY BENEFITS

Real Examiner-Level Feedback - Subject Examples I

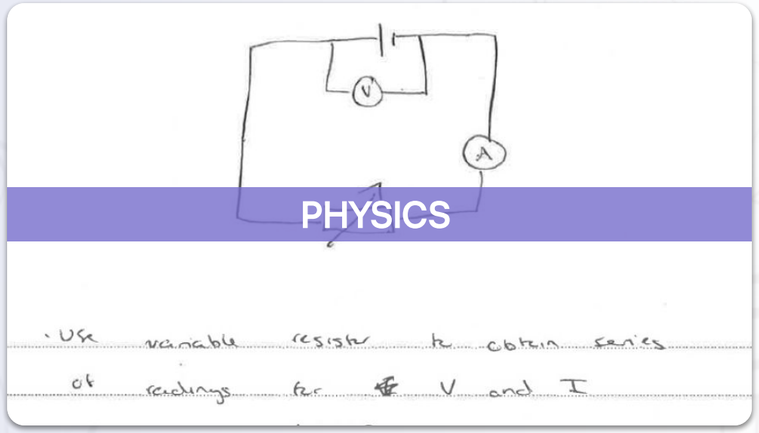
Built for major exam boards: Pearson | Cambridge – Expert grading across STEM



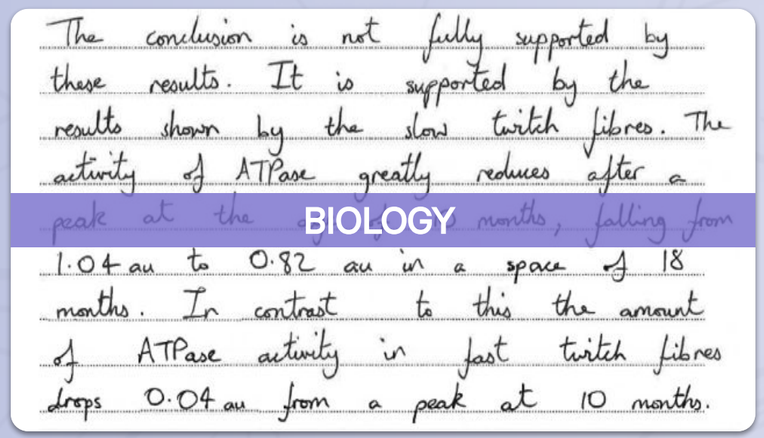
MATHEMATICS



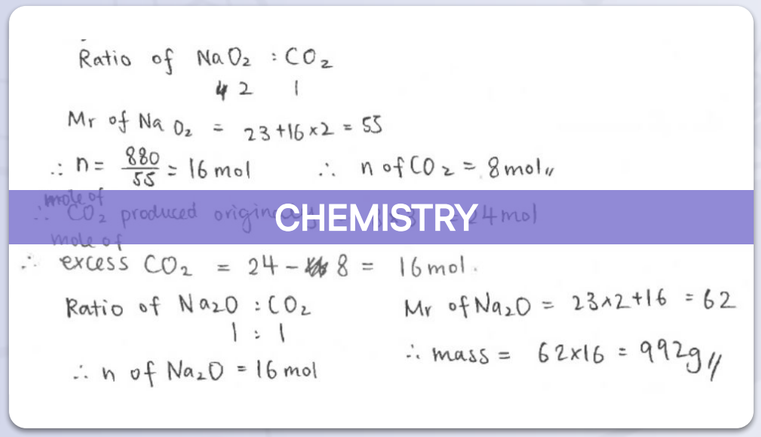
FURTHER MATHEMATICS



PHYSICS



BIOLOGY



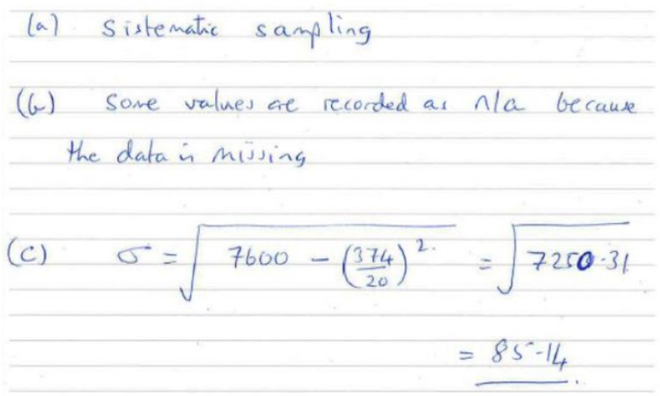
CHEMISTRY

+

more subjects

Real Examiner-Level Feedback - Subject Examples II

MATHEMATICS



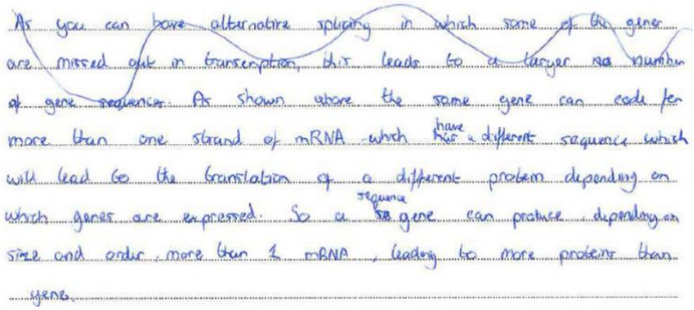
Examiner comments

- ✓ Part (a) is correct. Spelling is not penalised because the sampling method is clear.
- ✓ Part (b) is correct: you identified that the values are recorded as N/a because data is missing.
- ! Part (c) uses an incorrect standard deviation formula, so no accuracy marks are awarded for this part.
- → Revise the standard deviation formula using summary statistics, especially the difference between dividing by n and using the mean term correctly. Then practise three similar calculator-based questions.

Use this feedback to plan the next revision task, practise the exact weak skill, and then attempt a similar exam-board question under timed conditions.

BIOLOGY

Explain how the formation of mRNA, shown in the diagram, might account for this. (5)

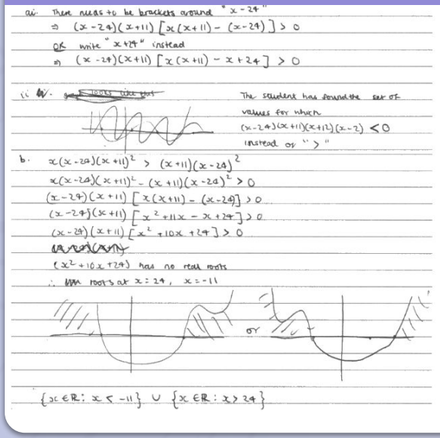


Examiner comments

- ✓ Credit is awarded for recognising that alternative splicing can form different mRNA transcripts.
- ! The response is too unclear to receive the other marking points. The explanation of gene expression is confused and does not clearly link exon selection to protein structure.
- → Revise mRNA processing: introns are removed, exons are joined, and different exon combinations can produce different amino acid sequences.
- → Practise writing short, step-by-step biology explanations using the terms exon, intron, mRNA, translation, amino acid sequence, and protein.

Use this feedback to plan the next revision task, practise the exact weak skill, and then attempt a similar exam-board question under timed conditions.

FURTHER MATHEMATICS

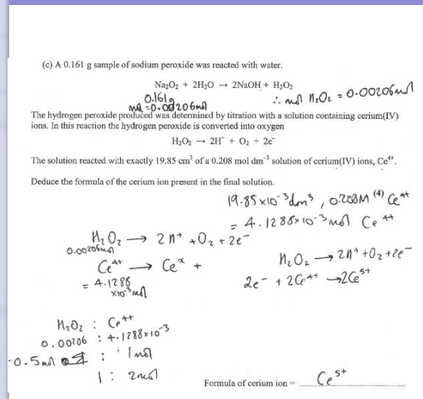


Examiner comments

- ✓ Parts (a)(i) and (a)(ii) receive credit for acceptable explanations.
- ! In part (b), an algebraic error early in the working leads to an incorrect quadratic and prevents the correct inequality solution.
- ! The final answer does not correctly identify the required interval structure for the inequality.
- → Revise quadratic inequalities by first finding the roots accurately, then sketching the sign pattern to decide whether the answer is the middle interval or the two outside intervals.

Use this feedback to plan the next revision task, practise the exact weak skill, and then attempt a similar exam-board question under timed conditions.

CHEMISTRY

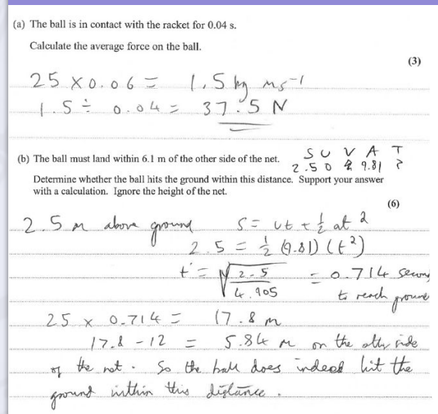


Examiner comments

- ✓ You correctly calculated the moles of Ce^{4+} and the moles of H_2O_2.
- ✓ You used the mole ratio Ce^{4+}:H_2O_2 correctly, so the first three marking points are achieved.
- ! The final ion should be Ce^{5+}, not Ce^{5+}. The cerium ion is reduced when it gains an electron.
- → Revise redox half-equations and oxidation-state changes. Pay particular attention to whether electrons appear on the left or right of the half-equation.

Use this feedback to plan the next revision task, practise the exact weak skill, and then attempt a similar exam-board question under timed conditions.

PHYSICS



Examiner comments

- ✓ Part (a) is fully correct. You calculated impulse correctly, divided by time correctly, and gave the answer with the correct unit.
- ✓ Part (b) is also correct. Your SUVAT working is valid and the horizontal distance calculation supports the conclusion.
- → For an even stronger exam response, make the final comparison explicit: because 5.8 m is less than 6.1 m, the ball lands within the required distance.
- → Practise more connected mechanics questions where vertical motion is used to find time and horizontal motion is then used to find distance.

Use this feedback to plan the next revision task, practise the exact weak skill, and then attempt a similar exam-board question under timed conditions.

Key Benefits - Tangible Outcomes for Schools

cortex

Time Savings

Automated marking frees teachers from hours of routine paper checking for teaching and support.

Instant Feedback

Detailed results within 10-30 minutes with per-question error analysis and actionable recommendations.

Objective Assessment

Consistent marking criteria for all students with full teacher oversight.

Format Flexibility

Cross-platform access and hybrid submission - digital input plus OCR photo recognition.

Data Insights

Class performance analytics and individual progress tracking to identify gaps and measure improvement.

Scalability

Unlimited subjects, tests, and students - from a single class to an entire school or multi-academy trust.

£0.10-£0.30 per practice exercise

Hours instead of weeks · More mock exams · Every student receives instant feedback

READY TO TRANSFORM YOUR ASSESSMENT PROCESS?

Cortex assessment platform is now available for your school or college.

Organise a free pilot and see how Cortex can help.

contact@cortex-global.com

cortex-global.com