Your Guide to Maths Progress International

Create confident and numerate students ready for the International GCSE

Matched to the Pearson Edexcel iLowerSecondary Award and the UK National Curriculum.
Every student can be a confident mathematician

That’s why the Maths Progress programme was, and is, specifically founded on key principles to nurture students’ confidence in maths.

The 10 evidence-based principles underpinning Maths Progress to build confidence and raise attainment are:

- Fluency
- Problem-solving
- Reflection
- Mathematical reasoning
- Progression
- Linking
- Multiplicative Reasoning
- Modelling
- Concrete–Pictorial–Abstract (CPA)
- Relevance

"Students do say ‘I like maths’ a lot more than they used to. Maths Progress has obviously contributed to that.

Head of Maths*

Seeing the programme at a glance...

Introducing Maths Progress International

Build the foundation for International GCSE Mathematics

Building on the popular KS3 Maths course, Maths Progress International has been designed specifically for international students and provides seamless progression to Pearson Edexcel International GCSE Mathematics (9–1), as well as matched to the Pearson Edexcel iLowerSecondary Award and the UK National Curriculum.

- International GCSE preparation including practice questions.
- Relevant, accessible wording, so language isn’t a barrier to learning maths.
- Appropriate cultural sensitivities and international contexts to make it relatable.
- Matched to the iLowerSecondary Award and the UK National Curriculum so you can be sure you have all you need whatever curriculum you are following.

"My confidence has grown. Year 8 Student*

*Quotations from the independent Impact Evaluation Study of KS3 Maths Progress undertaken with the Institute of Education, UCL. Read more at pearsonglobalschools.com/MathsProgressInternational
Our innovative KS3 Maths Progress course is built around a pedagogy based on leading mathematics educational research and best practice from teachers in the UK. The result is an innovative learning structure and progression based around 10 key principles designed to nurture confidence and raise achievement.

### Key Principles

- Multiplicative reasoning
- Progression
- Fluency
- Mathematical reasoning
- Problem solving
- Linking
- Modelling
- Relevance
- Concrete-pictorial-abstract
- Reflection (metacognition)

### What's in Maths Progress International?

Maths Progress International includes one Student Book and one Workbook per year plus online digital resources that work together to give you all the support you need for planning, teaching, progress tracking and assessing students’ progress from 11–14 and beyond.

- **Student Books**
  - The Student Books come with built-in differentiation, fluency, problem-solving and reasoning so you can use them with your whole class. They follow the unique unit structure that's been shown to boost confidence and support every student’s progress.

- **Workbooks**
  - New to Maths Progress International, the write-in, full colour workbooks offer extra practice of key content, along with progression checkers at the end of each unit with plenty of dynamic student support.

- **ActiveLearn**
  - Our updated ActiveLearn service combines front-of-class teaching resources for Maths Progress International with online homework, videos and exercises, as well as planning and assessment materials.

### Resources

- **Student Books**
- **Workbooks**
- **ActiveLearn**

For more information visit www.pearsonschools.co.uk/ks3mathsprogress.

**ISBN 978-1-4479-6231-1**
Progress with confidence

To help your 11-14 students progress and master maths with confidence, differentiation is embedded throughout the structure of each unit in the Student Book.

- A unique mastery approach that draws on global best practice and cutting-edge research.
- Impact evaluated with a study by the Institute of Education, UCL.
- Aligns seamlessly with our International GCSE resources for a consistent 11–16 experience.

There is that clear structure embedded within each topic, and as a result the lessons have the questions building from basic skill to really advanced skill[s]. But they are open-ended - there are so many different approaches you can take.

Maths Teacher*

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**Did you know?**

Maths Progress International is also matched to the Pearson Edexcel iLowerSecondary Award as well as providing full content from the UK curriculum. Read more page 15.

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1 Students are helped to master fundamental knowledge and skills over a series of lessons.
2 Before moving on with the rest of the unit, students check their understanding in a short formative assessment, and give an indication of their confidence level.
3 Students decide on their personalised route through the rest of the unit.
4 Finally, students do a test to determine their progression across the unit.

In areas where students have yet to develop a solid understanding and/or they do not feel confident, they can choose to strengthen their learning.

In areas where students performed well in the assessment and also feel confident, they can choose to extend their learning.
A closer look at the Student Book

Lesson opener
Outlines lesson objectives and the fundamental knowledge and skills that students will master to boost confidence.

Worked examples
Provide guidance around examples of key concepts with bar models, and other pictorial representations where needed.

Key points
Explain key concepts and definitions where students need them.

Master
Where students are helped to master fundamental knowledge and skills over a series of lessons.

Check
A short formative assessment where students can check their understanding.

Formative assessment
Questions check on students’ progress and learning and provide a route to further guidance or extension.

3 Equations, functions and formulae

3.1 Simplifying algebraic expressions

You will learn to:
Simplify expressions by collecting like terms.

Exercise 3.1

Copy and complete three addition pyramids. Each brick is the sum of the two below. (Collaborative or whole class activity.)

Simplifying expressions

Writing expressions and formulae

Warm up

Lessons begin with accessible questions designed to recap prior knowledge, and develop students' mathematical fluency in the facts and skills they will soon be using.

Hints and tips

Guide students to help build problem-solving strategies throughout the course.
A closer look at the Student Book

Strengthen
Where students who are yet to develop a solid understanding and/or don’t feel confident, can strengthen their learning.

Hints
Support students with scaffolded guidance where they need it most.

Visual reminders
Support learning and provide a different way of looking at a problem.

Simplifying expressions
1. Copy and complete.
2. Match the expressions.
3. Match vocabulary.
4. Simplify by matching the terms.
5. Copy and complete.
6. Check by substituting the terms.
7. Simplify by matching the terms.

Real life maths examples put learning into context.

Problem-solving
Clearly signposted questions enable students to recognise that they need to try different strategies.

Extend
Where students who have performed well in the ‘Check up’ and feel confident can build on and deepen their mathematical understanding.

Finance
Real life maths examples put learning into context.

Unit test
Provides a quick assessment that covers everything learned in the unit, making it easy to see where students are progressing or where additional support might be needed.
A focus on STEM

STEM lessons focus on key science, technology, engineering and maths skills to give students the aspiration, knowledge and skills to thrive and succeed into STEM-related careers.

A closer look at the Workbook

The write-in student workbooks offer extra practice of key content along with student support, confidence checkers and progression charts, giving students the chance to reflect on their progress and take ownership of their work.

STEM questions highlight important links to using science in real life.

Worked examples

Provide guidance around examples of key concepts with images, bar models, and other pictorial representations where needed.

Guided

Guided questions with partially worked solutions help students structure their answers.

QR codes

QR codes give students direct access to worked example videos on their phones or tablets providing crucial support for tricky questions.
Maths Progress International is fully matched to the Pearson Edexcel iLower Secondary award, part of the iProgress family. From Primary through to Secondary, iProgress delivers a consistent and high-quality educational experience for students aged 5 to 19, by providing globally recognised qualifications and curriculum-matched resources at each school stage.

Based on the UK curriculum but designed with a global outlook, iProgress is a learning journey for your students from Pearson Edexcel, and includes iPrimary, iLowerSecondary, International GCSE (IG) and International A Level (IAL).

**Progression to International GCSE**

*Maths Progress International* offers a seamless transition for progression into Pearson Edexcel International GCSE Mathematics (9-1) and beyond.

Pearson Edexcel International GCSE (9–1) qualifications are comparable to the UK GCSE, with appropriate international content and assessment that will enable successful progression for learners.

We have a range of resources available to help you prepare your students for success in Pearson Edexcel’s world class qualifications.

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**Teaching Resources**
Interactive front-of-class teaching resources that boost engagement and inspire students.

**Planning**
Complete support for planning and teaching with detailed teaching notes, planning guides and lesson ideas.

**Assessment**
Track students’ progress from 11–16. It will save you time and give you confidence in your data to plan appropriate intervention.

**Student Resources**
Hundreds of auto-marked activities for students to use in lessons or at home to build on their learning and practice.

**Find out more**
pearsonglobalschools.com/internationalGCSE

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There’s lots more to see online...

pearsonglobalschools.com/MathsProgressInternational

- Samples
- ActiveLearn free trial
- Request a demo
- Sign up for latest news