

Covers the UK National Curriculum

Your Guide to Maths Progress International

Create confident and numerate students ready for International GCSE



Say hello to Maths Progress International...

We want every student to engage with the power of maths so they can develop the skills and confidence to achieve and progress throughout their lives.

That's why Maths Progress International has been built on our well-loved 2014 course and your feedback to engage your Key Stage 3 students, boost their mathematical confidence and give them the best preparation for International GCSE study and beyond.

Like what you see?

You can explore even more of Maths Progress International with a free Evaluation Pack.

If you haven't done so already, request yours today at pearsonschools.co.uk/MPItry.



Maths Progress International has been built to support students with making the most of Key Stage 3 maths and preparing for their next steps.

- Helps KS3 students to master maths with confidence with an established approach that draws upon global best practices and cutting-edge research
- Our unique unit structure has been shown to build confidence and support every student's progress
- Key skills-building support for problem-solving and reasoning, plus meaningful practice to consolidate learning, deepen understanding and forge connections between topics
- Tailored to give seamless progression to International GCSE, with questions that aim to master fundamental knowledge and skills over a series of lessons



Fully covers the UK National Curriculum so you can be sure all essential content is included



What's in Maths Progress International?

Maths Progress International includes one Student Book and one Workbook per year plus digital resources that work together to give you all the support you need for planning, teaching, progress tracking and assessing students' progress from KS3 and beyond.



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.

ActiveLearn

Your online toolkit

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.



New to Maths Progress International, the write-in, full colour workbooks offer extra practice of key content and dynamic support. Progression charts for each unit help students keep track of how they are doing.

Workbooks



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A unique approach to boosting students' mathematical confidence

Every student can be a confident mathematician.

With Maths Progress International, our aim is to help give every student the best preparation for their next steps through KS3 study, International GCSE and beyond.

That's why Maths Progress International is specifically founded on key principles to nurture students' confidence in maths so they can believe it too. And if they can believe it, they can persevere, achieve, and progress.

The 10 key principles of building confidence in maths:

These evidence-based principles underpin Maths Progress International to boost student's confidence and raise attainment:



And the approach works...

From what teachers, students and research studies have told us, we've seen that Maths Progress series have helped students confidence in maths grow across the world.

Students do say 'I like maths' a lot more than they used to. Maths Progress has obviously contributed to that. Head of Maths*

Everyone can have a go, it doesn't matter if you a make a mistake. There is that environment that's been created and I would say these resources have helped do that.

Maths Teacher Hamstead Hall Academy

^r Quotations from the independent research study with the Institute of Education, UCL about the effectiveness of KS3 Maths Progress



Effectiveness of KS3 Maths Progress highlighted by an independent research study with the Institute of Education, UCL

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Progress with confidence

Our unique mastery approach has been developed by leading educational researchers and teachers. To help your KS3 students progress and master maths with confidence, differentiation is embedded throughout the structure of each unit in the Student Books.

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 openended - there are so many different approaches you can take. Maths Teacher*



* Quotations from the independent research study with the Institute of Education, UCL about the effectiveness of KS3 Maths Progress



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Check

A short formative assessment where students can check their understanding.



Reflect

Enables students to understand their own confidence levels with a topic so they can make the decision whether to 'strengthen' or 'extend' knowledge.

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	Extend
questions enable	Where students who
se that they need	have performed well
gies.	in the 'Check up' and
	feel confident can
5 A triangle has side length <i>n</i> cm. The second side is 5 less than double th The third side is twice the length of the sa Write an expression for the perimeter of the Write an expression for the perimeter of the	their mathematical understanding.
6 In the pyramid, each brick is the sum of the two bricks below. Work out the missing expressions.	, and the second s
	+ b
7 A magician uses this number trick: Think of a num Multiply it by 2. Subtract double the number you fir: The number you have is 6. Explain the trick.	ber Add 3. O7 hint st thought of. Call the unknown number 'x' and construct an algebraic expression.
8 In a magic square the diagonals, rows and column	s all sum to the
 a Write the numbers 1-9 in the magic square (usin only once) so that all the diagonals, rows and co Three numbers have been written for you. 	lg each number lumns sum to 15.
b Write the algebraic expressions in the magic squa	are so that all the
rows, columns and diagonals sum to $3c$.	
$\left(\begin{array}{c} c-a-b \end{array} \right) \left(\begin{array}{c} c+b \end{array} \right) \left(\begin{array}{c} c-a+b \end{array} \right) \left(\begin{array}{c} c+a-b \end{array} \right) \left(\begin{array}{c} c+a-b$	a = b = c = a
9 When $a = -2$ and $b = 4$ all but one of these express	sions have the
same value. Which is the 'odd one out'?	
$b-a$ $2b+a$ $\frac{2b^2}{b}$ b^2-2b+a $-a-b$	
10 This is part of a spreadsheet a shop uses to calculate wages.	A B C D Pay per hour Number of hours Pay
a What value will be calculated in cell D2? b What expressions should be written in celle D2 and D4 to calculate the wages	trs Badri 8 25 = B2 * C2 tr Gupta 7 17 17 trs Alam 15 15 15
of Mr Gupta and Mrs Alam? c The value in cell B4 is changed to	= (B2+B3+B4)/3 = (C2+C3+C4)/3
£19. What value will show in cell D4? d The expression in C5 calculates the mean number of bours worked	Key point 500
What is this value? • What does the expression in cell B5 calculate?	In spreadsheets * is used instead of ×.
	Unit 3 Equations, functions and formulae 72
11 When a = 5, b = 11 and c = 9 work out the value of a 4a + 2c b 20 - 3a	
 c 10c - 2b + a 12 Use the formula z = 2m - a to work out the value of 	Unit test
a m = 3, a = 5 b m = 1, a = -7	
13 Simplify a $r \times r \times r \times r \times r$	
b $2 \times y \times 7 \times y \times y$ c $3y \times y$ d $3m \times 5m$	
e $18x + 3$ 14 Simplify by collecting like terms	
a $3r^3 + 10r^3$ b $12x + 3x^2 - 5x$	
15 Expand a x(x + 7)	
b $r(r-5)$ c $2b(b+5)$ d $3b(2b-4)$	Monitoring progress
16 Find the value of each expression when $b = 2$ and a b^3	Provides a quick assessment
b $b^2 - m$ c $\frac{b+2m}{2}$	that covers everything learned
d $m^2 - b^2$ e $3(m - b)$	in the unit, making it easy to see
Challenge	where students are progressing
17 Are there any values of x that make these pairs of a $2x^2$ and $2x$	might be needed.
b $6x - 3$ and $3x + 6$ c $\frac{3x}{2}$ and $\frac{2x}{3}$	
d 2(3x + 5) and 2(3x - 5)	

18 Reflect Look back at the work you have done in this unit. Find a question

Netlect Look back at the work you have done in this unit. Find a question that you could not answer immediately, but that you worked hard at, and then answered correctly. How do you feel when you find it difficult to answer a maths question? Write down the strategies you use to help you when you have difficulty. How do you feel when you eventually understand and get the correct answer?

A focus on STEM

STEM lessons in our textbooks 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 Workbooks

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.





ActiveLearn – your online toolkit

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

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 throughout KS3. 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. The use of ActiveLearn for their independent learning resources at home has been really beneficial ... ultimately that is saving time in a working day for a teacher.

Maths Teacher, Hamstead Hall Academy

ActiveLearn is an incredibly well thought out online innovation that is rich in content, support and learning ... a learner-centric dynamo. Teach Secondary

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Supporting 5-19 Progression

We believe that everyone should have the opportunity to enjoy exploring maths.

That's why all our Pearson resources, including Maths Progress International, work together to help you equip your students with what they need to progress and take their next steps with confidence.

Aligned learning approaches

Hundreds of primary schools now adopt a mastery-led curriculum. Maths Progress is built on mastery principles, so students have a

Boosting confidence

Maths Progress International is founded on key principles to ensure that students can master Key Stage 3 maths with confidence, in readiness for their next steps.

next steps

With KS3-appropriate International GCSE-style questions, Maths Progress International familiarises students with what they'll see in later years.



Learn more at pearsonschools.co.uk

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Smoothing the transition to

MATHEMATICS

Pure Mathematics

Year 1/AS

Consistency across the curriculum

Our resources follow similar formats and approaches to support teaching, learning and reporting experience.



What next?

If you like what you've seen, visit pearsonschools.co.uk/MathsProgressInternational to:



request a free Evaluation Pack



let us know if you'd like to chat with us about the course



