Welcome back! This is your LbQ September maths Transitions Pack

Find out what your pupils already know with low-anxiety assessment resources, and give them the confidence and skills needed for a smoother transition.

- **Ready to Progress from Primary** →
- **Ready to Progress resources** →
- **Using LbQ to help diagnose gaps in learning** →
- **Top ten math skills for transition** →
- **Assessment without anxiety** →

"By using LbQ, I have less marking and it has provided me with more useful data to help plan my next steps with the class."

Emma Tranter, Mathematics Teacher
Ribblesdale High School, Clitheroe

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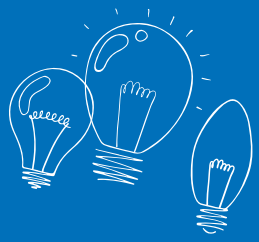
READY TO PROGRESS FROM PRIMARY



Learning by Questions

LbQ's diagnostic 'Ready to Progress from Primary' Question Sets can help you instantly find and – more importantly – fill any significant gaps in learning.

Based on the Ready to Progress criteria for KS2, our Question Sets are structured around key mathematical concepts, guiding pupils through the knowledge that they are expected to have at the end of year 6 and highlighting any gaps along the way.

The data generated from these Question Sets is presented in our Results Matrix, making spotting gaps in pupil knowledge easy to see. There is also a scheme of Question Sets that has been collated to help fill those gaps where needed.

Let's get started!

Click on one of the subject areas below to view the list of Question Sets.

Clicking on the title will take you to the set itself*.

From there, you can:

- add the set to your lesson planner.
- use it as a front-of-class teaching tool.
- adapt it to your needs.
- send to children to answer on their devices.

Number and Place Value

Addition and Subtraction

Fractions

Number Facts

Multiplication and Division

Geometry

Other useful transition resources

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Y7 Catch up and Transition Question Sets: **Number and Place Value**

Home ↑

Find the Gaps	**Ready to Progress from Primary: Number and Place Value** →
Fill the Gaps	**Catch up Mastery and Practice Sets**
Year 5 Gaps	Count Up and Down in Tenths (Decimals) Count Up and Down in Hundredths (Decimals) Recognise and Write Decimal Equivalents to Any Number of Tenths Recognise and Write Decimal Equivalents to Any Number of Hundredths Read, Write, Compare and Order Numbers with up to Three Decimal Places Round Numbers up to 1,000,000 Round Decimals With Two Decimal Places to the Nearest Whole Number and to One Decimal Place Compare and Convert Metric Units of Length, Mass and Volume up to 2 Decimal Places
Year 6 Gaps	Read, Write, Compare and Order Numbers up to 10,000,000 Count in Steps of Powers of 10 Round Numbers up to 10,000,000 Understand Thousandths in Decimal Numbers Multiply and Divide Numbers Including Decimals by 10, 100 and 1,000 Read, Write, Compare and Order Numbers with up to Three Decimal Places

Home ↑

Y7 Catch up and Transition Question Sets: **Number Facts**

Find the Gaps	**Ready to Progress from Primary: Number Facts** →
Fill the Gaps	Catch up Mastery and Practice Sets
Year 5 Gaps	Add and Subtract Numbers Mentally Multiply and Divide Numbers Mentally Practise Adding Decimals Mentally (Up to 3 d.p.) Practise Subtracting Decimals Mentally (Up to 3 d.p.) Practise Multiplying Mentally Using Known Table Facts Practise Dividing Mentally Using Known Table Facts Practise Decimal Multiplication Facts with Numbers to 1 d.p.

Y7 Catch up and Transition Question Sets: **Addition and Subtraction**

Home

Find the Gaps	**Ready to Progress from Primary: Addition and Subtraction** →
Fill the Gaps	**Catch up Mastery and Practice Sets**
Year 5/6 Gaps	Add and Subtract Numbers Mentally Add and Subtract Numbers with More Than 4 Digits (Column Method) Add and Subtract Numbers up to 2 Decimal Places (Column Method)

Y7 Catch up and Transition Question Sets: **Multiplication and Division**

Home ↑

Find the Gaps	Ready to Progress from Primary: Multiplication and Division →
Fill the Gaps	**Catch up Mastery and Practice Sets**
Year 5 Gaps	Divide Numbers With up to 2 Digits by 10 Divide Numbers With up to 2 Digits by 100 Identify Factors Identify Multiples Identify Common Factors and Common Multiples Multiply Numbers up to 4 Digits by a 1-Digit Number (Short Multiplication) Divide Numbers up to 4 Digits by a 1-Digit Number (Short Division)
Year 6 Gaps	Number Sequences Perform Mental Calculations Including with Mixed Operations Multiply Numbers Mentally Divide Numbers Mentally Compare Two Quantities Find and Use Proportions Find and Use Ratios Solve Problems Involving Addition, Subtraction, Multiplication and Division

Y7 Catch up and Transition Question Sets: **Fractions**

Home

Find the Gaps	Ready to Progress from Primary: Fractions →
Fill the Gaps	**Catch up Mastery and Practice Sets**
Year 5 Gaps	Find Fractions of Quantities Identify and Find Equivalent Fractions Convert Decimal Numbers to Fractions Convert Tenths and Hundredths to Decimals Understand Thousandths in Decimal Numbers
Year 6 Gaps	Simplify Proper Fractions Practise Finding Equivalent Fractions Compare and Order Fractions with Related Denominators (Proper, Improper and Mixed Number Fractions) Compare and Order Fractions with Different Denominators (Proper, Improper and Mixed Number Fractions)

Y7 Catch up and Transition Question Sets: **Geometry**

Home

Find the Gaps	Ready to Progress from Primary: Geometry →
Fill the Gaps	**Catch up Mastery and Practice Sets**
Year 5 Gaps	Estimate and Compare Acute, Obtuse and Reflex Angles Measure Angles Calculate the Areas of Rectilinear Shapes by Counting Squares Calculate and Compare the Areas of Rectilinear Shapes Calculate and Estimate the Area of Irregular Shapes
Year 6 Gaps	Compare the Areas and Perimeters of Rectilinear Shapes Calculate the Area of Triangles

Other useful transition resources

Home ↑

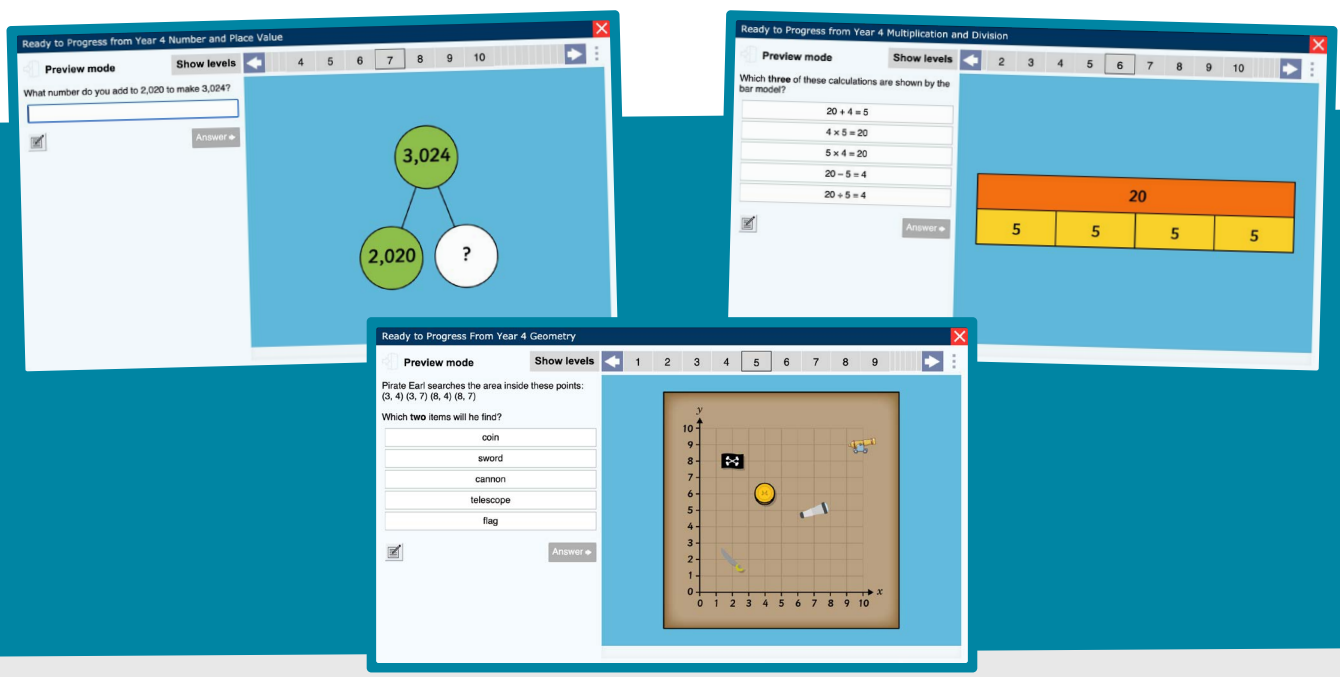
	Question Set
Year 5	End of Year 5 Curriculum Review: Arithmetic End of Year 5 Curriculum Review: Non-Arithmetic
Year 6	End of Year 6 Curriculum Review: Arithmetic End of Year 6 Curriculum Review: Non-Arithmetic Year 6 National Curriculum Test Practice (SATs): Maths Set 1 Paper 1 Year 6 National Curriculum Test Practice (SATs): Maths Set 1 Paper 2 Year 6 National Curriculum Test Practice (SATs): Maths Set 1 Paper 3 Year 6 National Curriculum Test Practice (SATs): Maths Set 2 Paper 1 Year 6 National Curriculum Test Practice (SATs): Maths Set 2 Paper 2 Year 6 National Curriculum Test Practice (SATs): Maths Set 2 Paper 3 Year 6 National Curriculum Test Practice (SATs): Maths Set 3 Paper 1 Year 6 National Curriculum Test Practice (SATs): Maths Set 3 Paper 2 Year 6 National Curriculum Test Practice (SATs): Maths Set 3 Paper 3

READY-TO-PROGRESS RESOURCES

Learning by Questions

Celebrate maths successes and inform future planning.

You can use LbQ's **'Ready-to-Progress'** Question Sets to find out where gaps might be hiding in children's learning from primary school, and use the results to plan which topics pupils might need to go over again or spend a little longer on over the coming year. LbQ's platform provides a very engaging and informal way of assessing children, and the pupils also benefit from receiving instant prompts and guidance if they need it.



"With the potential to improve the work-life balance of teachers, and the potential to put pupils a whole term ahead in terms of academic progress, all schools should consider Learning by Questions."

Teacher Toolkit

info@lbq.org

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Each level of these Question Sets focuses on one ready-to-progress criterion, with simple contextual problems towards the end of each level. They can also be easily adapted if you require.

	Year 5	Year 6
Number and Place Value	Ready to Progress from Year 5 Number and Place Value	Ready to Progress from Year 6 Number and Place Value
Number Facts	Ready to Progress from Year 5 Number Facts	
Addition and Subtraction		Ready to Progress from Year 6 Addition, Subtraction, Multiplication and Division
Multiplication and Division	Ready to Progress from Year 5 Multiplication and Division	
Fractions	Ready to Progress from Year 5 Fractions	Ready to Progress from Year 6 Fractions
Geometry	Ready to Progress from Year 5 Geometry	Ready to-progress from Year 6 Geometry

USING LbQ TO HELP DIAGNOSE GAPS IN LEARNING

Learning by Questions

Use LbQ's range of diagnostic Question Sets to instantly find and – more importantly – help you fill any critical gaps in maths learning.

Our Question Sets are ideal for low-stakes testing and diagnostic purposes, and they are extremely useful to inform planning before you start teaching a new topic.

For each set, pupils privately answer questions on their devices and work at their own pace on our engaging platform. All questions are automatically marked and pupils receive instant feedback and guidance where needed.

Teachers are provided with continuous assessment on the LbQ Results Matrix, meaning that any gaps can be addressed with individual pupils or with the whole class.

Let's get started!

Click on one of the year groups below to view the list of Question Sets.

Clicking on the title will take you to the set itself*.

From there, you can:

- add the set to your lesson planner.
- use it as a front-of-class teaching tool.
- adapt it to your needs.
- send to children to answer on their devices.

Year 5 Year 6

"LbQ engages all learners as children are motivated to work at their own level. As a teacher, I know there is an excellent pace of learning. I can address misconceptions as they happen, rather than the next day when I have marked their books."

Debbie Mercer, Year 3 Teacher
St Thomas Primary School, Blackburn

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Finding the Gaps: Year 5 Suggested Diagnostic Sets

Topic Reviews	Ready to Progress and Curriculum Reviews
Place Value Topic Review (Y5)	Ready to Progress from Year 5 Number and Place Value
Add and Subtract Topic Review (Y5)	Ready to Progress from Year 5 Number Facts
Multiplication and Division Topic Review (Y5)	Ready to Progress from Year 5 Multiplication and Division
Fractions Topic Review (Y5)	Ready to Progress from Year 5 Fractions
Decimals and Percentages Topic Review (Y5)	Ready to Progress From Year 5 Geometry
Properties of Number Topic Review (Y5)	End of Year 4 Curriculum Review: Arithmetic
Measurement Topic Review (Y5)	End of Year 4 Curriculum Review: Non-Arithmetic
Geometry Topic Review (Y5)	End of Year 5 Curriculum Review: Arithmetic
Statistics Topic Review (Y5)	End of Year 5 Curriculum Review: Non-Arithmetic

Finding the Gaps: Year 6 Suggested Diagnostic Sets

Topic Reviews	Ready to Progress and Curriculum Reviews
Place Value Topic Review (Y6)	Ready to Progress from Year 6 Number and Place Value
Multiplication and Division Topic Review (Y6)	Ready to Progress from Year 6 Addition, Subtraction, Multiplication and Division
Fractions Topic Review (Y6)	Ready to Progress from Year 6 Fractions
Decimals and Percentages Topic Review (Y6)	Ready to Progress From Year 6 Geometry
Ratio and Proportion Topic Review (Y6)	End of Year 5 Curriculum Review: Arithmetic
Algebra Topic Review (Y6)	End of Year 5 Curriculum Review: Non-Arithmetic
Measurement Topic Review (Y6)	End of Year 6 Curriculum Review: Arithmetic
Geometry Topic Review (Y6)	End of Year 6 Curriculum Review: Non-Arithmetic
Statistics Topic Review (Y6)	

TOP TEN MATHS SKILLS FOR TRANSITION

Learning by Questions

It's important to ensure children have the key mathematical skills that will provide the foundations for success in secondary school.

What if you could just prioritise giving children 10 key skills that would allow them a solid start at secondary?

We asked a range of teachers – from primaries and secondaries – to choose their **'Top Ten Key Maths Skills for Y6 to Y7 Transition'**. Whilst there was some interesting debate about what to include in this list, we have settled on the following 10 skills:

Top Ten Key Maths Skills for Transition	
Scaling integers and decimals by 10, 100 and 1,000	Calculating with fractions
Using formal written methods	Fraction-decimal-percentage equivalence
Choosing and using efficient methods for calculations	Simple angle rules
Using mental methods and known facts	BIDMAS/The order of operations
Finding factors and multiples	Basic algebra skills

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To help you and your students, we have resources that cover our top ten math skills for transition. They are short, mixed Question Sets that are designed to remind students of these key maths skills in the first few weeks of their time at secondary. They'll be perfectly prepped for the next stage of their maths education!

Key Transition Skills Question Sets for Year 6 and Year 7 Pupils	
Transition Key Skills Practice: Set 1	Transition Key Skills Practice: Set 6
Transition Key Skills Practice: Set 2	Transition Key Skills Practice: Set 7
Transition Key Skills Practice: Set 3	Transition Key Skills Practice: Set 8
Transition Key Skills Practice: Set 4	Transition Key Skills Practice: Set 9
Transition Key Skills Practice: Set 5	Transition Key Skills Practice: Set 10

Everybody we surveyed was in complete agreement that rapid recall of times table facts was another vital skill. Use our **Practise 1 to 12 Times Tables** and **Practise 1 to 12 Times Tables Division Facts** sets regularly in addition to the mixed skills practice sets.

ASSESSMENT WITHOUT ANXIETY

Learning by Questions

Informal, low-stakes assessment for all pupils

When assessing student's overall understanding at the beginning of the year, many schools use paper-based assessments to assess how secure their primary school learning has been. Just preparing and marking such tests can take up hours of your valuable time, before you even begin to analyse the results. Not to mention, many children have huge anxiety around such tests and can often underperform in these one-off tests as a result.

What if there was a way of getting valuable data without causing pupil anxiety whilst also saving hours of marking time too?

Well, as an LbQ user, you can do just that!

For Year 2–6 maths, we have end-of-year Curriculum Reviews. These sets are ideal for a number of reasons:

1. Start a set instantly – no photocopying.
2. Assess curriculum objectives for each year group.
3. Assessment is automatic, making your analysis much easier.
4. More engaging for the pupils.
5. Pupils who need it will still receive guidance to help them get to a correct answer or correct their own mistakes.

For each set, pupils privately answer questions on their devices and work at their own pace on our engaging platform. Teachers are provided with continuous assessment on the LbQ Results Matrix, meaning that any gaps can be addressed with individual pupils or with the whole class. Move to the next page to find links to all of our end-of-year assessments.

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	Question Set
Year 2	End of Year 2 Curriculum Review: Arithmetic End of Year 2 Curriculum Review: Non-Arithmetic Part 1 End of Year 2 Curriculum Review: Non-Arithmetic Part 2
Year 3	End of Year 3 Curriculum Review: Arithmetic End of Year 3 Curriculum Review: Non-Arithmetic
Year 4	End of Year 4 Curriculum Review: Arithmetic End of Year 4 Curriculum Review: Non-Arithmetic
Year 5	End of Year 5 Curriculum Review: Arithmetic End of Year 5 Curriculum Review: Non-Arithmetic
Year 6	End of Year 6 Curriculum Review: Arithmetic End of Year 6 Curriculum Review: Non-Arithmetic Year 6 National Curriculum Test Practice (SATs): Maths Set 1 Paper 1 Year 6 National Curriculum Test Practice (SATs): Maths Set 1 Paper 2 Year 6 National Curriculum Test Practice (SATs): Maths Set 1 Paper 3 Year 6 National Curriculum Test Practice (SATs): Maths Set 2 Paper 1 Year 6 National Curriculum Test Practice (SATs): Maths Set 2 Paper 2 Year 6 National Curriculum Test Practice (SATs): Maths Set 2 Paper 3 Year 6 National Curriculum Test Practice (SATs): Maths Set 3 Paper 1 Year 6 National Curriculum Test Practice (SATs): Maths Set 3 Paper 2 Year 6 National Curriculum Test Practice (SATs): Maths Set 3 Paper 3