

DU Year 5 Maths Planning

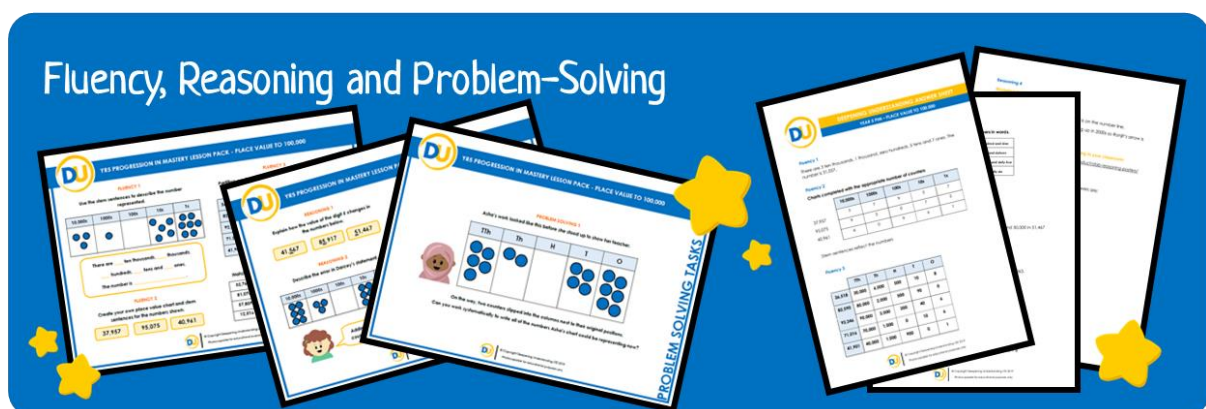
Small Steps Guide

Thanks for downloading this DU Maths Small Steps Guide for our 'Progression in Mastery' resource range. The steps we provide meet statutory and non-statutory National Curriculum standards and are designed to be compatible with other schemes such as White Rose and NCETM.

Components of our Maths PIM Range



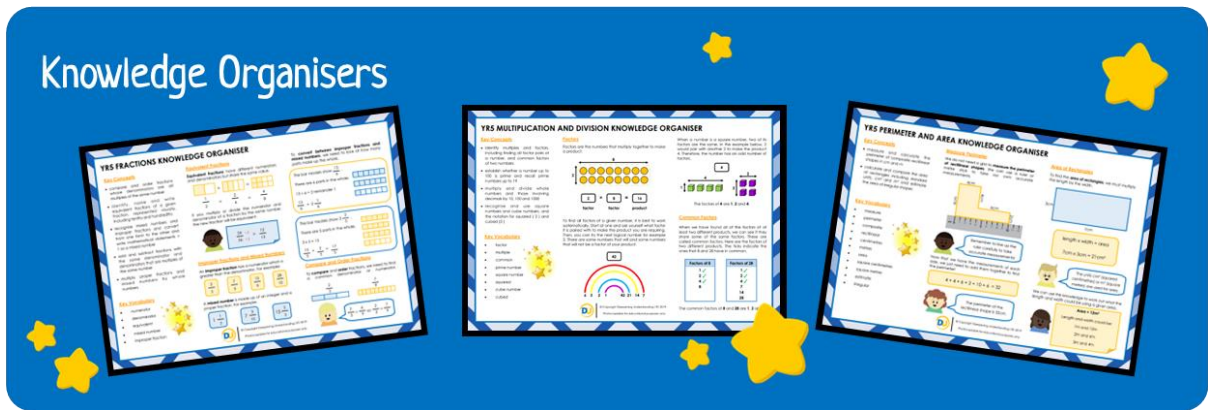
All the maths steps devised by our team come with editable teaching slides so you can easily use DU as a basis for your next lesson. The PowerPoints provided are structured in line with the philosophies of a six-part mastery lesson.



For each small step focus, you are provided with fluency application questions to consolidate learning as well as reasoning and problem solving tasks to provide challenge as pupils delve deeper into their understanding of concepts. All tasks are provided with answers, including modelled reasoning in line with our DAB (Decide, Assess, Back it up) approach. Our tasks are not differentiated: they are designed with the whole class starting at the same point and scaffolding, support and challenge offered according to pupil need.



To revise and consolidate previous learning, we offer a set of morning work slides and Securing Skills Sheets. These tasks are designed to complement our PIM packs and revisit the content taught in the previous block of work.



Our knowledge organisers can be used in many ways: for revision of taught content, for teacher subject knowledge or be shared with parents via a secure VLE.



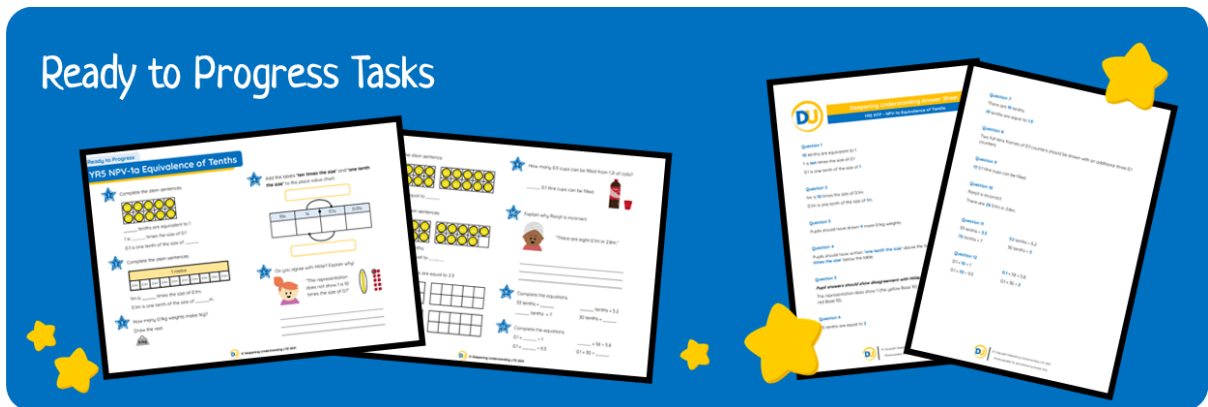
Additional tasks in the form of reasoning cards are provided. Each pack covers a broader maths objective and are useful as tasks for homework or early finishers.

NRICH Tasks



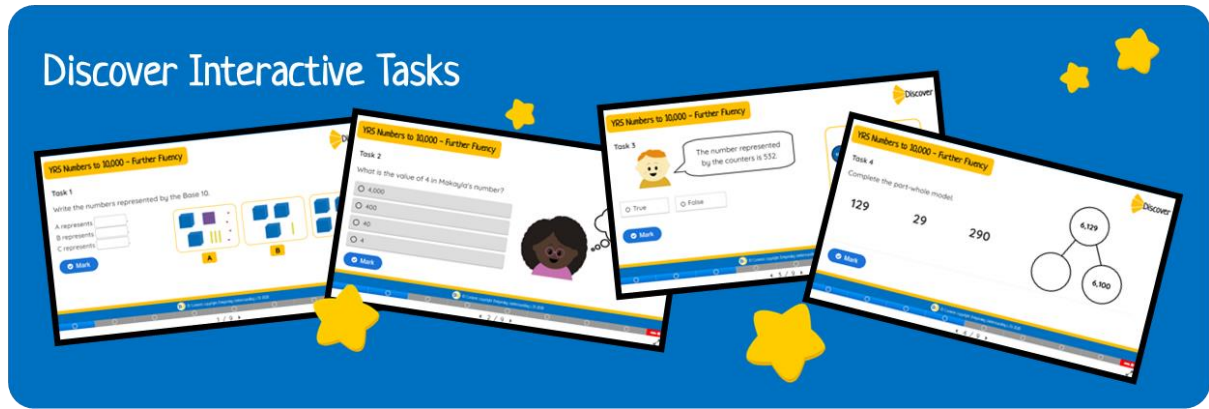
Our partnership with NRICH offers a range of exclusive 'low threshold, high ceiling' problem solving tasks. These tasks are designed to be accessible by every pupil with scope for extending the learning journey in different directions. You can also access signposted tasks and CPD articles from the NRICH tab.

Ready to Progress Tasks



These tasks are designed to be used alongside the NCETM Ready to Progress materials. They offer additional assessment questions broken down into smaller steps, enabling you to assess exactly which areas your pupils are secure in or if further instruction is required.

Discover Interactive Tasks



As a DU subscriber, you are also given access to Discover (our online learning platform). Each of our maths steps has an interactive task that you can assign to your pupils to complete on an electronic device. These tasks are automatically marked and can quickly provide you with performance data across your class with our question-by-question breakdown of results. These resources are perfect for alternative classwork, interventions and homework. Simply search the step name or number when setting up your next assignment in 'My Account'.

If you've not used Discover yet, don't worry!

All your questions and answers can be found [here](#).

Our Small Steps Collection

The grid below outlines how you may sequence each step in your Year 5 learning journey. It also allows you to reflect upon our offering and select individual steps of maths to match the approach delivered in your setting. DU always encourages you to make changes to the materials we provide to suit the needs of pupils you teach and align our materials to any school philosophies as part of your research-driven curriculum.

Year 5: Autumn Term A - Place Value

Step Number	Pack Name	RtP
001	Place Value to 10,000	
002	Round to the Nearest 10, 100, 1,000	
003	Place Value to 100,000	
004	Compare and Order Numbers to 100,000	
005	Round Numbers within 100,000	
006	Numbers to One Million	
007	Counting in Powers of 10	
008	Compare and Order Numbers to 1,000,000	
009	Round to 1,000,000	
010	Negative Numbers	
011	Roman Numerals to 1,000	

Year 5: Autumn Term A - Addition and Subtraction

Step Number	Pack Name	RtP
012	Column Addition - More than 4-Digits	
013	Column Subtraction - More than 4-Digits	
014	Round to Estimate and Approximate	
015	Inverse Operations	
016	Multi-Step Problems	

Year 5: Autumn Term B - Statistics

Step Number	Pack Name	RtP
017	Read and Interpret Line Graphs	
018	Draw Line Graphs	
019	Solving Problems with Line Graphs	
020	Read and Interpret Tables	
021	Two-way Tables	
022	Timetables	

Year 5: Autumn Term B - Multiplication and Division

Step Number	Pack Name	RtP
023	Multiples	MD 2a
024	Factors	MD 2a
025	Common Factors	MD 2b
026	Prime Numbers	MD 2e
027	Square Numbers	
028	Cube Numbers	
029	Multiplying by 10, 100, 1,000	MD 1a 1c
030	Dividing by 10, 100, 1,000	MD 1b 1d
031	Multiples of 10, 100, 1,000	

Year 5: Autumn Term B - Measurement: Perimeter and Area

Step Number	Pack Name	RtP
032	Measure Perimeter	
033	Calculate Perimeter	
034	Area of Rectangles	
035	Area of Compound Shapes	
036	Area of Irregular Shapes	

Year 5: Spring Term A – Multiplication and Division

Step Number	Pack Name	RtP
037	Multiply 4-Digits by 1-Digit	MD 3
038	Multiply 2-Digits (area model)	
039	Multiply 2-Digits by 2-Digits	
040	Multiply 3-Digits by 2-Digits	
041	Multiply 4-Digits by 2-Digits	
042	Divide 4-Digits by 1-Digit	MD 4a
043	Division with Remainders	MD 4b

Year 5: Spring Term A/B – Fractions

Step Number	Pack Name	RtP
044	Equivalent Fractions	F 2a
045	Improper Fractions to Mixed Numbers	
046	Mixed Numbers to Improper Fractions	
047	Number Sequences (fractions)	
048	Compare and Order Fractions Less than 1	
049	Compare and Order Fractions Greater than 1	
050	Add and Subtract Fractions	
051	Add Fractions within 1	
052	Add Three or More Fractions	
053	Add Fractions	
054	Add Mixed Numbers	
055	Subtract Fractions	
056	Subtract Mixed Numbers	
057	Breaking the Whole	
058	Subtract Two Mixed Numbers	
059	Multiply Unit Fractions by an Integer	
060	Multiply Non-Unit Fractions by an Integer	
061	Multiply Mixed Numbers by an Integer	
062	Fraction of an Amount	F 1a F 1b
063	Fractions as Operators	

Year 5: Spring Term B - Decimals

Step Number	Pack Name	RtP
064	Numbers to 2 Decimal Places	NPV 2a
065	Decimals as Fractions (1)	NPV 1c
066	Decimals as Fractions (2)	F 3
067	Understand Thousandths	
068	Thousandths as Decimals	
069	Rounding Decimals	NPV 3b
070	Order and Compare Decimals	
071	Understand Percentages	
072	Percentages as Fractions and Decimals	
073	Equivalent F.D.P	

Year 5: Summer Term A - Decimals

Step Number	Pack Name	RtP
074	Adding Decimals within 1	
075	Subtracting Decimals within 1	
076	Complements to 1	
077	Adding Decimals Across the Whole	
078	Adding Decimals (Same Decimal Places)	
079	Subtract Decimals (Same Decimal Places)	
080	Adding Decimals (Different Decimal Places)	
081	Subtract Decimals (Different Decimal Places)	
082	Adding and Subtracting Wholes and Decimals	
083	Decimal Sequences	
084	Multiplying Decimals by 10, 100 and 1,000	
085	Dividing Decimals by 10, 100 and 1,000	

Year 5: Summer Term B - Geometry: Properties of Shape

Step Number	Pack Name	RtP
086	Measuring Angles in Degrees	G 1a
087	Measuring Acute Angles	
088	Measuring Obtuse Angles	
089	Drawing Lines and Angles Accurately	G 1c
090	Angles on a Straight Line	
091	Angles Around a Point	
092	Lengths and Angles in Shapes	
093	Regular and Irregular Polygons	
094	Reasoning about 3D Shapes	

Year 5: Summer Term B - Geometry: Position and Direction

Step Number	Pack Name	RtP
095	Position in the First Quadrant	
096	Translation	
097	Translation with Coordinates	
098	Reflection (Shape)	
099	Reflection with Coordinates	

Year 5: Summer Term B - Measurement: Converting Units

Step Number	Pack Name	RtP
100	Kilograms and Kilometres	
101	Millimetres and Millilitres	
102	Metric Units	
103	Imperial Units	
104	Converting Units of Time	
105	Timetables	

Year 5: Summer Term B - Measurement: Volume

Step Number	Pack Name	RtP
106	What is Volume?	
107	Compare Volume	
108	Estimate Volume	
109	Estimate Capacity	