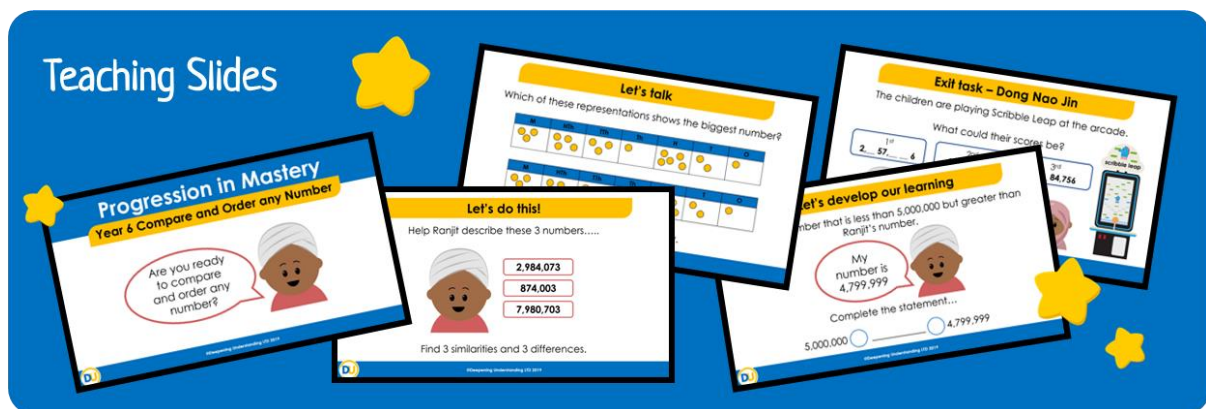


DU Year 6 Maths Planning

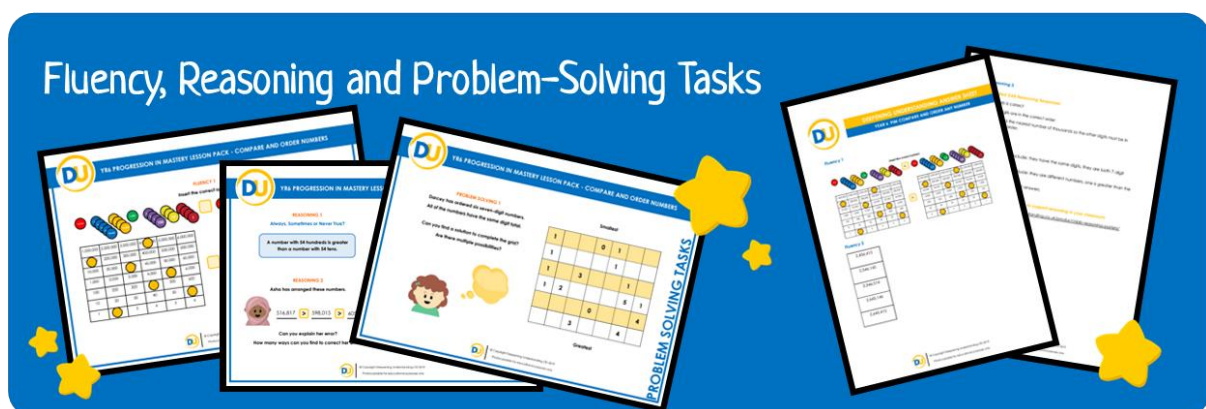
Small Steps Guide

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.

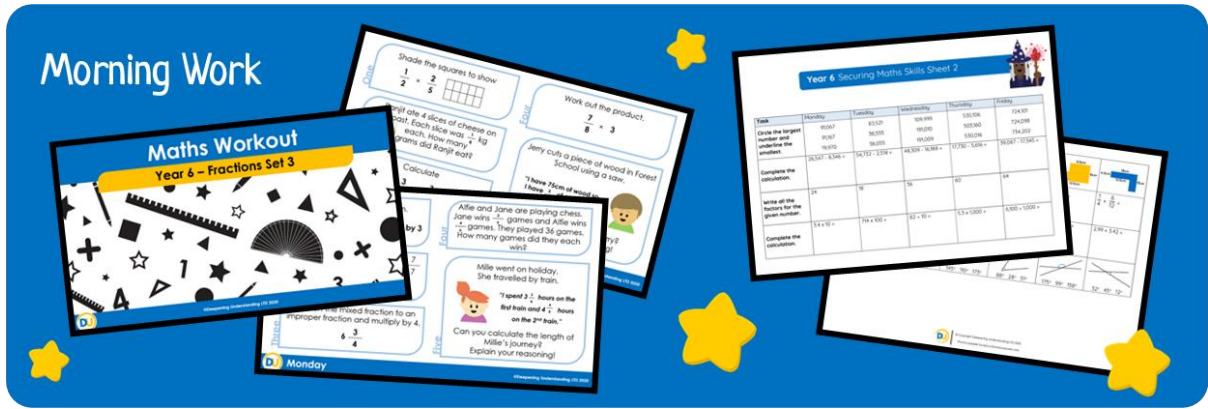
Components of our Maths PIM Range



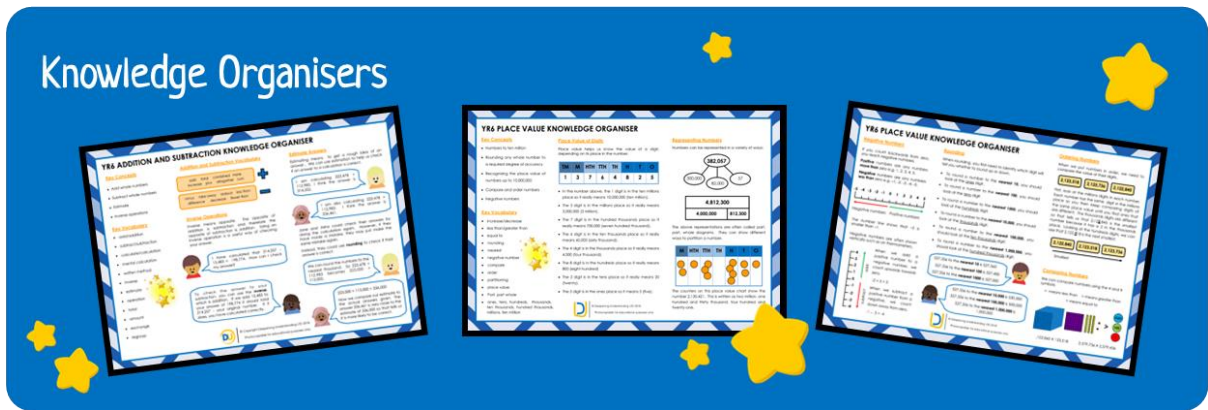
All the maths steps devised by our team come with editable teaching slides so you can easily use DU as a basis for your next lesson. The PowerPoints provided are structured in line with the philosophies of a six-part mastery lesson.



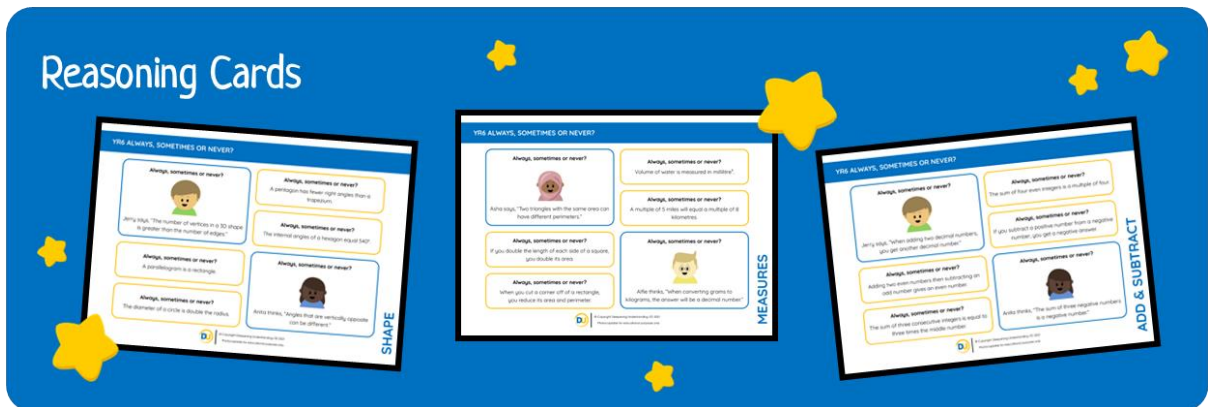
For each small step focus, you are provided with fluency application questions to consolidate learning as well as reasoning and problem solving tasks to provide challenge as pupils delve deeper into their understanding of concepts. All tasks are provided with answers, including modelled reasoning in 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



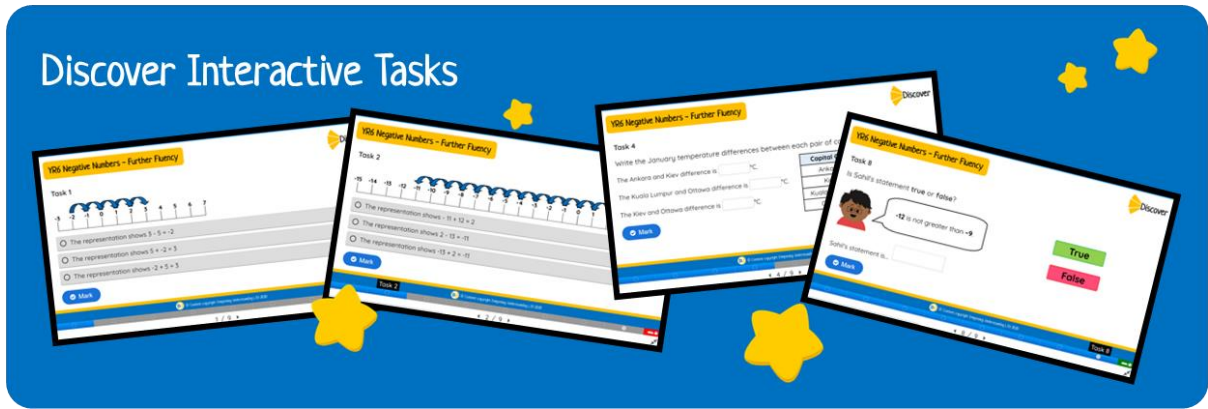
Our partnership with NRICH offers a range of exclusive 'low threshold, high ceiling' problem solving tasks. These tasks are designed to be accessible by every pupil with scope for extending the learning journey in different directions. You can also access signposted tasks and CPD articles from the NRICH 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 6 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 6: Autumn Term A - Place Value

Step Number	Pack Name	RtP
001	Numbers to 10 Million	NPV 2a
002	Compare and Order any Number	
003	Rounding any Whole Number	NPV 3b
004	Negative Numbers	

Year 5: Autumn Term A - Four Operations

Step Number	Pack Name	RtP
005	Add and Subtract Integers	
006	Multiply up to 4-Digits by 2-Digits	
007	Short Division	
008	Division using Factors	
009	Long Division (1)	
010	Long Division (2)	
011	Long Division (3)	
012	Long Division (4)	
013	Common Factors	
014	Common Multiples	
015	Prime Numbers to 100	
016	Square and Cube Numbers	
017	Order of Operations	
018	Mental Calculations	
019	Reason from Known Facts	

Year 6: Autumn Term B - Fractions

Step Number	Pack Name	RtP
020	Simplify Fractions	F 1a 1b
021	Fractions on a Number Line	
022	Compare and Order (denominators)	F 3
023	Compare and Order (numerators)	
024	Add and Subtract Fractions (1)	
025	Add and Subtract Fractions (2)	
026	Add Fractions	
027	Subtract Fractions	
028	Multiply Fractions by Integers	
029	Multiply Fractions by Fractions	
030	Divide Fractions by Integers (1)	
031	Divide Fractions by Integers (2)	
032	Four Rules with Fractions	
033	Fraction of an Amount	
034	Finding the Whole	

Year 6: Autumn Term B - Position and Direction

Step Number	Pack Name	RtP
035	The First Quadrant	
036	Four Quadrants	
037	Translations	
038	Reflections	

Year 6: Spring Term A - Decimals

Step Number	Pack Name	RtP
039	Three Decimal Places	
040	Multiply by 10, 100, 1,000	NPV 1b
041	Divide by 10, 100, 1,000	NPV 1b
042	Multiply Decimals by Integers	
043	Divide Decimals by Integers	
044	Division to Solve Problems	
045	Decimals as Fractions	
046	Fractions to Decimals (1)	
047	Fractions to Decimals (2)	

Year 6: Spring Term A - Percentages

Step Number	Pack Name	RtP
048	Fractions to Percentages	
049	Equivalent Fractions Decimals and Percentages	
050	Order Fractions, Decimals and Percentages	
051	Percentage of an Amount (1)	
052	Percentage of an Amount (2)	
053	Percentages – Missing Values	

Year 6: Spring Term A - Algebra

Step Number	Pack Name	RtP
054	Find a Rule (one step)	
055	Find a Rule (two steps)	
056	Forming Expressions	
057	Substitution	
058	Formulae	
059	Forming Equations	
060	One-step Equations	
061	Two-step Equations	
062	Find Pairs of Values (1)	
063	Find Pairs of Values (2)	

Year 6: Spring Term B - Converting Units of Measure

Step Number	Pack Name	RtP
064	Metric Measures	
065	Convert Metric Measures	
066	Calculate with Metric Measures	
067	Miles and Kilometres	
068	Imperial Measures	

Year 6: Spring Term B - Measure: Perimeter, Area and Volume

Step Number	Pack Name	RtP
069	Shape - Same Area	
070	Area and Perimeter	
071	Area of a Triangle (1)	
072	Area of a Triangle (2)	
073	Area of a Triangle (3)	
074	Area of a Parallelogram	
075	Volume - Counting Cubes	
076	Volume of a Cuboid	

Year 6: Spring Term B - Ratio

Step Number	Pack Name	RtP
077	Using Ratio Language	AS/MD 3
078	Ratio and Fractions	
079	Introducing the Ratio Symbol	
080	Calculating Ratio	
081	Using Scale Factors	
082	Calculating Scale Factors	
083	Ratio and Proportion Problems	AS/MD 4

Year 6: Spring Term B - Statistics

Step Number	Pack Name	RtP
084	Read and Interpret Line Graphs	
085	Draw Line Graphs	
086	Line Graph Problems	
087	Circles	
088	Read and Interpret Pie Charts	
089	Pie Charts with Percentages	
090	Draw Pie Charts	
091	The Mean	

Year 6: Summer Term A - Geometry: Properties of Shape

Step Number	Pack Name	RtP
092	Measure with a Protractor	
093	Introduce Angles	
094	Calculate Angles	
095	Vertically Opposite Angles	
096	Angles in a Triangle	
097	Angles in Isosceles Triangles	
098	Using Triangle Angle Knowledge	
099	Angles in Quadrilaterals	
100	Angles in Regular Polygons	
101	Drawing Shapes Accurately	
102	Nets of 3D Shapes	