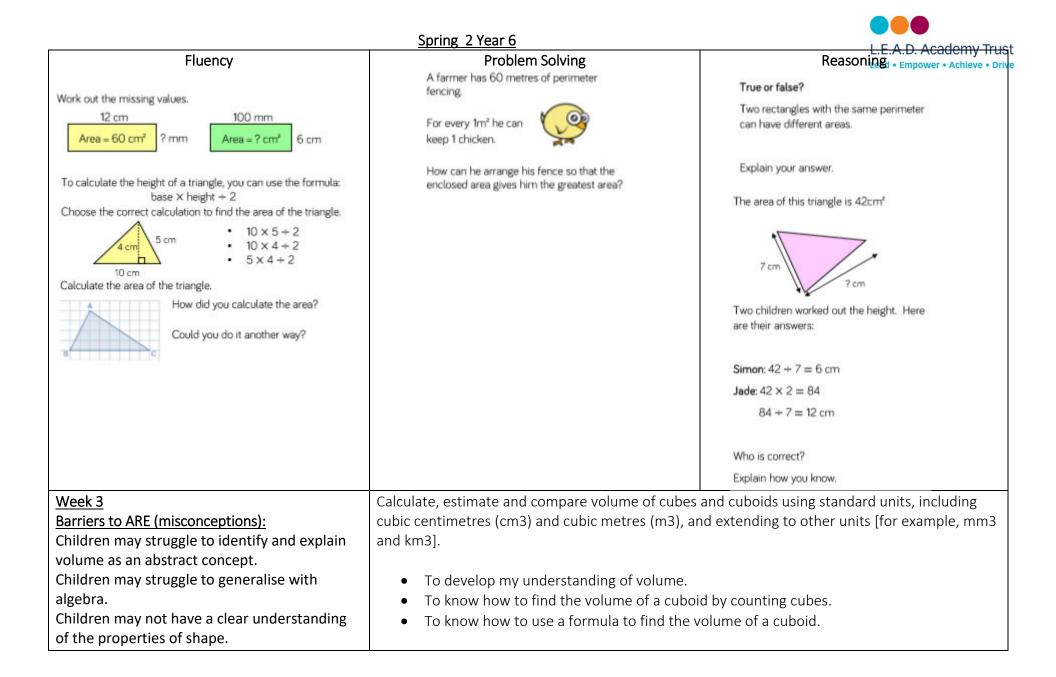
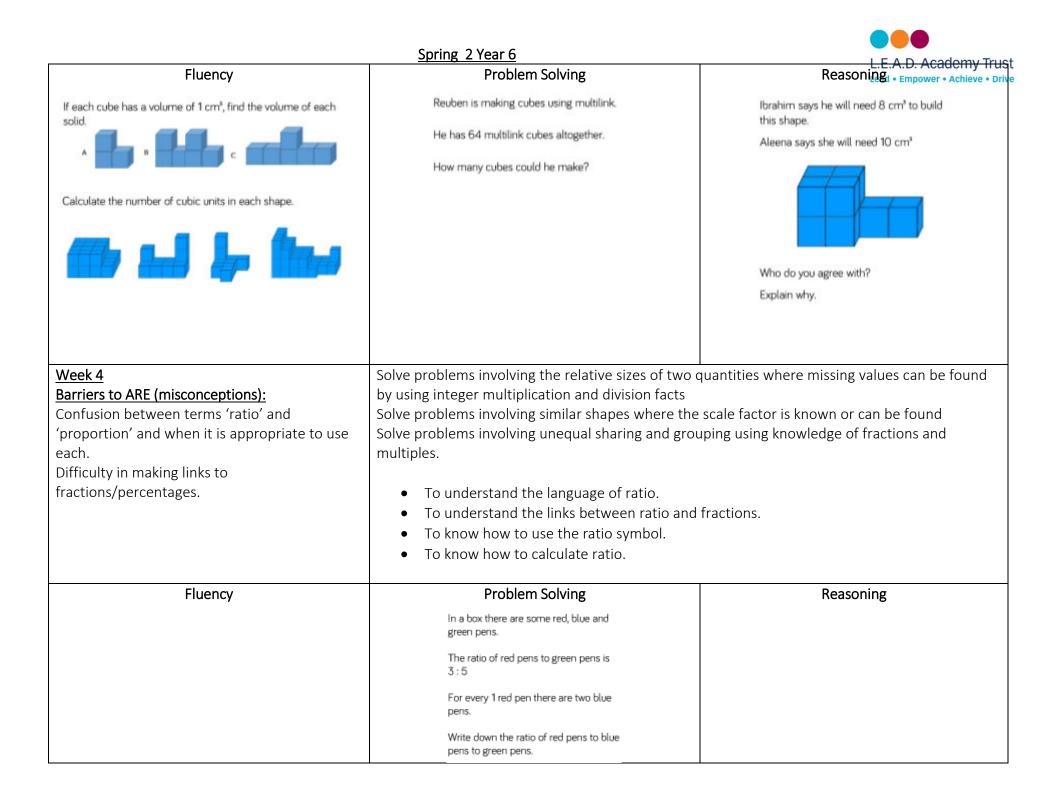
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Links to prior learning/ objectives: Place value including decimal places. ~ Formal written methods for all 4 number operations. ~ Multiplication facts up to 12 x 12 and how to derive facts based on these. ~ Word problems for all four operations. ~ Using algebra in its basic form- missing numbers, area. ~ Facts relating to units of measure. ~ Imperial measures.	Resources: Base10, place value charts, place value counters, multiplication squares, physical objects, shapes for volume, cubes Mastery: (where to find some resources) • Teaching for Mastery • White Rose New and old documents • Mastery maths stickers • Nrich (curriculum mapping)	Vocabulary: Lead • Empower • Achieve • Drive Divide, multiply, place value, units of measure, miles, kilometres, metric, imperial, Area, calculate, multiply, measures, formulae, parallelogram, triangle, volume, 3D, 2D, parallel lines, length, width, depth. calculate, multiply, measures, formulae, parallelogram, triangle, volume, 3D, 2D, parallel lines, length, width, depth.		
Objectives and Teaching				
Week 1 Barriers to ARE (misconceptions): Children may struggle to recall the relationship between different units of measure. Children may not have a strong understanding of place value and struggle to recognise that when multiplying the number increases while a number decreases when divided. Children may struggle to see the pattern of a digit moving depending on the number of zeros when multiplying/dividing by the power of 10. Children may be unable to explain/ say the decimal places.	 Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places Convert between miles and kilometres To develop my understanding of metric measures. To know how to perform calculations with metric measures. To understand the relationship between metric and imperial measures. To know how to convert between miles and kilometres. To know how to convert between miles and kilometres. To develop my understanding of imperial measures. 			
Fluency	Problem Solving A shop sells litre bottles of water for 99 p each. 300 ml bottles of water are on offer for 8 for £2 If Jess wants to buy 12 L of water for the cheapest amount, which should she buy and why?	Reasoning True or false? If you convert any amount of grams to kilograms, then it will never have a digit in the ones column. E.g. 76 $g = 0.076 \ kg$		

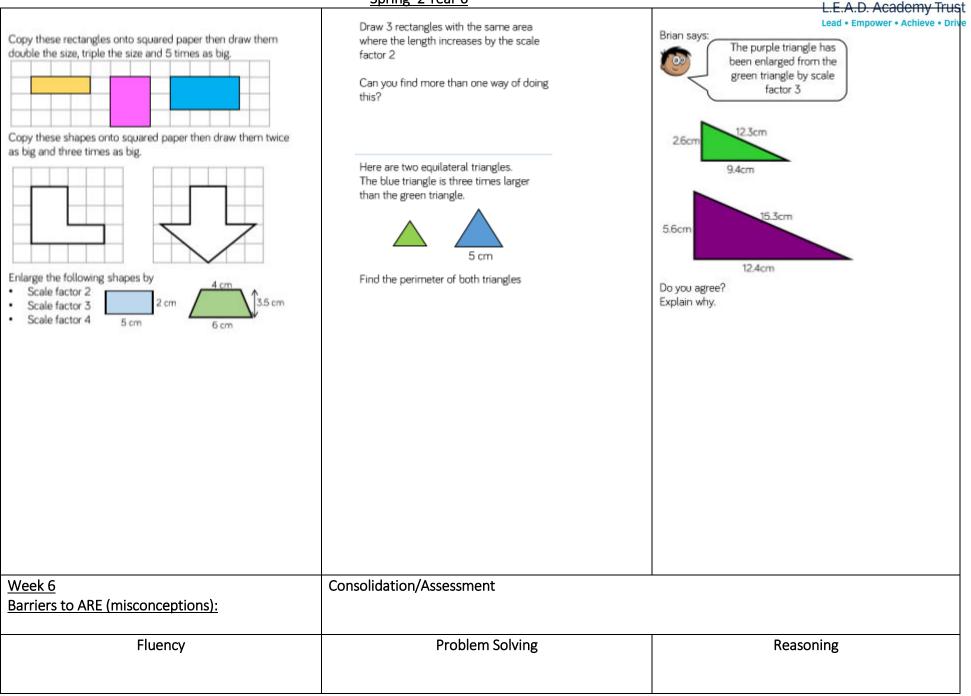
	Spring 2 Year 6	
		L.E.A.D. Academy Tru
There are kilograms in one kilogram. Ibere are kilograms in one tonne. Jase these facts to fill in the blanks: Ibere are loop 1,500 1,005	Sort the lengths of time from shortest to longest. 360 minutes 72 hours $\frac{1}{14}$ fortnight $\frac{1}{2}$ day 5,760 minutes	Lead • Empower • Achieve • Di
<u>Week 2</u> <u>Barriers to ARE (misconceptions):</u> Children may confuse area and perimeter. Children may struggle to identify that area is	Recognise when it is possible to use formulae for area and volume of shapes Recognise that shapes with the same areas can have different perimeters and vice versa Calculate the area of parallelograms and triangles	
the space covered. Children may struggle to identify and explain volume. Children may struggle to generalise with algebra. Children may not have a clear understanding of the properties of shape.	 To know that different shapes can have the same area. To develop the skill of using formulae to calculate area and perimeter. To develop my understanding of the relationship between area and perimeter. To know how to find the area of a triangle. To develop the skill of finding the area of a triangle. To know how to find the area of a parallelogram. 	





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Complete. The ratio of red counters to blue counters is The ratio of blue counters to red counters is The ratio of blue counters to red counters is Here are the ingredients for a smoothie. Write down the ratio of: Bananas to strawberries Strawberries to bananas to blackberries Strawberries to strawberries Strawberries to strawberries Blackberries to strawberries The ratio of red to green marbles it 3 : 7 Draw an image to represent the marbles. What fraction of the marbles are green?		 L.E.A.D. ACademy Trust Lead • Empower • Achieve • Drive Tick the correct statements. OOOOOOO There are two yellow tins for every three red tins. There are two red tins for every three yellow tins. The ratio of red tins to yellow tins is 2:3 The ratio of yellow tins to red tins is 2:3 Explain which statements are incorrect and why.
<u>Week 5</u> <u>Barriers to ARE (misconceptions):</u> Confusion between terms 'ratio' and 'proportion' and when it is appropriate to use each. Difficulty in making links to fractions/percentages.	 Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts Solve problems involving similar shapes where the scale factor is known or can be found Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. To know how to use scale factors. To know how to calculate scale factors. To develop the skill of solving problems involving ratio and proportion. 	
Fluency	Problem Solving	<u>Reasoning</u>

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