	Spring 2 Year 5							
Links to prior learning/ objectives	Resources	Vocabulary: L.E.A.D. Academy Irust Lead • Empower • Achieve • Drive						
<ul> <li>Place value knowledge- working with decimals too.</li> <li>Understanding of strategies for addition, subtraction, multiplication and division.</li> <li>Multiplication facts up to 12 x 12.</li> <li>Awareness of how to multiply and divide by 10, 100 and 1000.</li> <li>Factors and multiples.</li> <li>Using manipulatives to demonstrate mathematical concepts.</li> <li>Understanding of decimal place and how to read amounts that have decimal places.</li> <li>Understanding of fractions (unit and no-unit fractions), what they represent and how to compare/order them.</li> </ul>	<ul> <li>Bar models, multiplication grids, number lines, counting sticks, place value grids</li> <li>Mastery: <ul> <li>(where to find some resources)</li> <li>Teaching for Mastery</li> <li>White Rose New and old documents</li> <li>Mastery maths stickers</li> <li>Nrich (curriculum mapping)</li> </ul> </li> </ul>	Fractions, denominator, numerator, multiples, compare, order, equivalent, tenths, hundredths, identify, represent, pictorially, Add, subtract, fractions, pictorially, bar model, denominators, multiples. Fractions, decimals, equivalence, conversion, thousandths, hundredths, tenths, Round, decimals, decimal places, whole number, decimal notation,						
	Objectives and Teaching							
Barriers to ARE (misconceptions) Week 1 Children may struggle to understand what a fraction represents. Children may struggle to apply their multiplication and division knowledge. Fluency	<ul> <li>Compare and order fractions whose denomination</li> <li>To know how to compare fractions.</li> <li>To develop the skill of comparing fraction</li> <li>To know how to order fractions.</li> <li>To develop the skill of ordering fraction</li> <li>To understand how to order and comp</li> <li>Reasoning</li> </ul>	ators are all multiples of the same number. ions. ns. are fractions. <b>Problem solving</b>						



	Spring 2 Year 5	L.E.A.D. Academy Trusi		
Children may mispronounce tenths and hundredths forgetting the th. Children may struggle to see how two fractions could represent the same. Children may not be able to apply their knowledge of multiplication and division.	<ul> <li>To develop the skill of identifying equiv</li> <li>To understand how to identify equivale</li> </ul>	ent fractions. Lead • Empower • Achieve • Drive		
Fluency	Reasoning	Problem solving		
Take two pieces of paper the same size. Fold on piece into two equal pieces. What equivalent fractions can you find? Use the models to write equivalent fractions. Terma uses the models and her multiplication and division skills to find equivalent fractions. Terma uses the models and her multiplication and division skills to find equivalent fractions. Terma uses the models and her multiplication and division skills to find equivalent fractions. Terma uses the models and her multiplication and division skills to find equivalent fractions. Terma uses the models and her multiplication and division skills to find equivalent fractions. Terma uses the models and her multiplication and division skills to find equivalent fractions. Terma uses the models and her multiplication and division skills to find equivalent fractions. Terma uses the models and her multiplication and division skills to find equivalent fractions. Terma uses the models and her multiplication and division site the the denominator is 16	Kim says,Whatever you do to the numerator, you do to the denominator.Here are the equivalent fractions she has found for $\frac{4}{8}$ : $\frac{4}{8} = \frac{8}{16}$ $\frac{4}{8} = \frac{6}{10}$ $\frac{4}{8} = \frac{2}{4}$ $\frac{4}{8} = \frac{2}{4}$ $\frac{4}{8} = \frac{1}{5}$ Does Kim's method work? Explain why.	Here are some fraction cards. All of the fractions are equivalent. $\begin{array}{c}                                     $		
Week 3	Add and subtract fractions with the same dence	ominator and denominators that are multiples		
Children may struggle to see how to add and				
procedurally first)	<ul> <li>To know how to add fractions with the same denominator.</li> </ul>			
Children may not be able to apply their	<ul><li>To know how to add fractions.</li><li>To know how to subtract fractions with the same denominator.</li></ul>			
knowledge of multiplication and division.				
Children may miscalculate.	To know how to subtract fractions.			
	<ul> <li>To develop the skill of adding and subtracting fractions.</li> </ul>			
Fluency	Reasoning	Problem Solving		



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numbers as a decimal. Record the numbers as decimal.

Estimate the value that each letter is pointing to.

0.24

0.25 0.26 0.27 0.28 0.29

b) 4 ones, 6 tenths, 0

0.22 0.23

hundredths and 2

thousandths c)  $3\frac{34}{1000}$ 

0.20 0.21

1

100

1

10

1

1000



Do you agree?

Explain your thinking.

Can you write each amount as a decimal and a fraction?

Can you represent Tim's amount in at least three different ways?

Three children are representing the number 0.504



Use the digits 3, 4 and 5 to complete the • Drive decimal number.



List all the possible numbers you can make.

Can you write all the decimals as fractions?

Choose three of the numbers and write them as words.







Complete the table and use the number lines to help you round to the nearest tenth and the nearest whole number:

Pictorial representation	Number lins	Rounded to the nearest tenth	Number line	Rounded to the rearrat whole rumber
	99		PP	
	999		99	
	99		QQQ	
	999		P	

## Spring 2 Year 5



A number between 11 and 20 with 2 decimal places rounds to the same number when rounded to one decimal place and when rounded to the nearest whole number?

What could this be? Is there more than one option? Explain why.



• Drive

## Rounded to the nearest 0.1, A is 3.5 and B is 3.0

What is the smallest possible difference between A and B?

What is the largest possible difference? Explain your strategy to a partner.

Simon is measuring a box of chocolates with a ruler that measures in



centimetres and millimetres.

He measures it to the nearest cm and writes the answer 28cm. What is the smallest length the box of chocolates could be? What is the largest length the box of chocolates could be?