Year Group: YEAR 6

Strand: Number

Topic: Fractions, Decimal, Percentages	Strategies	Useful references
a. Equivalent fractions	1. Use the fraction wall 2. Sharing a bar of chocolate 3. Using 2D shape to represent a particular fraction	NIM Book 6 page 41, 44-45 OIPM 6 pages 24-27
b. Relationship between fractions and decimals	1. Long division 2. short division	https://www.youtube.com/watch?v=HdU_rf7eMTI https://www.youtube.com/watch?v=SLze82Zcc4Y
c. Changing Mixed numbers to improper fractions	Step 1: Multiply the denominator by the whole number Step 2: Add the product to the numerator Step 3: you write the answer and keep the denominator in its original position	NIM page 42-43 OIPM 6 7 workbook pages 37 and 38
d. changing fractions to percentages	1. Multiply the fraction by 100 NB: Remember every whole number has an imaginary denominator of 1. 2. Simplify the result	NIM 6- page 95 https://www.google.com.gh/url?sa=t&source=web&rct=j&url=https://www.mathsisfun.com/converting-fractions-percents.html&ved=0ahUKEwjf_57e5ezRAhXMXhQKHYaTDfYQFggaMAE&usg=AFQjCNG_xVHN-XUXlmGXxE-OiQkMozL7bA
e. Changing percentages to decimals	1. Write the given percentage and divide it by 100. 2. Simplify 3. You may use a calculator, but it is important for your ward to know how to use both strategies.	NIM 6 - page 96
f. Changing decimals into percentages	1. Multiply the decimal by 100. 2. Attach the percentage symbol (%) to the answer 3. You may use a calculator but it is important for your ward to know how multiply a decimal by 100 and know the effect (that the digits move two steps to the left)	NIM 6-page 96.
g. Relationship between fractions, decimals and percentages	1. Convert a set of fractions to their decimals and percentages equivalents 2. You may use a calculator, but remember your ward must know	NIM 6- page 96, Q.4

	how change a fraction to decimal and to percentage using the strategies described above.	
h. Ordering fractions, decimals and percentages	1. Change all into fractions and compare OR 2. Change all into percentages and compare OR 3. Change all to decimals and compare	NIM 6 - page 96 OIPM 6-page 42
i.Finding fraction of an amount/quantity	1. Multiply the fraction and the amount 2. Before this, express the amount/quantity as a fraction e.g. 2/4 × 200 is the same as 2/4 × 200/1	NIM 6-page 97
Solving real life problem using fractions, decimals and percentages	A. Working with discounts and taxes Steps: 1. Write the percentage discount as a fraction. 2. Multiply it by the amount 3. Subtract the result from the original selling price/amount. 4. Write your final answer in a sentence form. B. Ratio and direct proportion Example: In a sports club there are 4 girls to every 3 boys. If there are 42 children in the club, how many are boys? Solution: Ratio = 4:3 Proportion = 4/7 + 3/7 = 7/7 (1 whole= 42) Now, to find the number of boys, multiply the proportions for boys by the total number of children = 3/7 × 42 = 18 Therefore, there are 18 boys in the club.	OIPM 6-page 43 NIM 6-page 99