LESSON PLAN 7						
CLASS: 6 TEACHER	c'S NAME :					
NAME OF THE UNIT	SUB-TOPICS	NO OF PERIODS REQUIRED			Time line for teaching	
		Teaching	Practice	TOTAL	From	То
FRACTIONS	7.1 INTRODUCTION 7.2 A FRACTION 7.3 FRACTION ON THE NUMBER LINE 7.4 PROPER FRACTIONS 7.5 IMPROPER AND MIXED FRACTIONS 7.6 EQUIVALENT FRACTIONS	3	3	6		
	7.7 SIMPLEST FORM OF A FRACTION 7.8 LIKE FRACTION 7.9.1 COMPARING LIKE FRACTIONS 7.9.2 COMPARING UNLIKE FRACTIONS	3	4	7		
	7.10 ADDITION AND SUBTRACTION OF FRACTIONS 7.10.1 ADDING OR SUBTRACTING LIKE FRACTIONS 7.10.2 ADDING OR SUBTRACTING FRACTIONS	3	4	7		
	TOTAL	9	11	20		
PRE-REQUISITES	KEY CONEPTS	KEY VOCABULARY				
	Every Pupil is expected to have basic knowledge in 0 # Fractions, part of a whole # Natural Numbers and Whole Numbers and Integers # representing natural, whole numbers and Integers on number line # ordering of integers # addition and subtraction of integers # four basic operations +,-,x,÷	# Portion, Part of Whole # fraction # Numerator # Denominator # Fraction bar, Vinculum # Proper fraction # Improper fraction # Mixed fraction # Comparis		er er nt fraction form ion action		

Learning Outcomes

After Completion of this lesson every student will be able to

recognize fractions and express part out of a whole as fraction

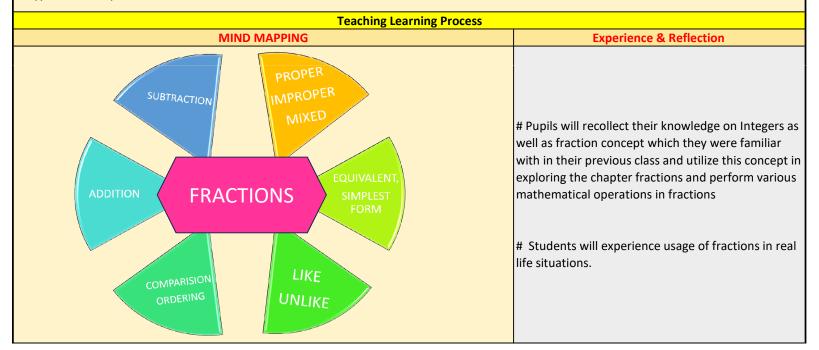
represent fractions on number line, descriminate among proper, improper and mixed fractions.

convert improper fractions into mixed fraction and vice versa

arrange and compare like as well as unlike fractions as per their order

perform addition and subtractions on like as well as unlike fractions.

appreciates the importance of fractions in real life situations



TEACHING PERIOD: 1,2,3	INTRODUCTION, A FRACTION, FRACTION ON THE NUMBER LINE, PROPER FRACTIONS, IMPROPER AND MIXED FRACTIONS			
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY (YOU DO)	
KEY WORDS & PRE REQUISITES	Brain storming session invoving children with pre-requisites vocabulary and concepts related to previous knowledge. Introduction of new vocabulary and key words associated with the concept # fraction # Portion # Part of a whole # Numerator # Denominator # Fraction Bar # vinculum # Proper fraction # Improper fraction # Mixed fraction # combination # convertion # Divisor # Quotient # dividend #	* Students read the pre- requisites and answer the questions to the teacher (whole class activity)	Every Pupil will read and write the key words in their note books	
MIND MAPPING	Teacher writes the key word "FRACTIONS" on the black board and will elict its other related words through questioning and will draw pupils' attention towards key concepts in the lesson	Hetrogeneous groups are created. One group will read the words and other will explain the meaning	Pupils individually read the keywords associated with knowing our numbers	
CONCEPTUAL UNDERSTANDING LEARNING ACTIVITY	Teacher recalls children's knowledge on Integers and their representation on number line in their previous chapter along with fraction as a part of a whole in their previous classes. Teacher Once again illustrates and makes children familiar with all those terminology related with fractions through a number of examples for a proper fraction, improper fraction, mixed fraction etc., and further demonstrates the concept of converting improper into mixed and vice versa and representing them in pictorial form and on the number line too Later teacher conducts an activity involving different hetrogeneous groups in which each group is provided with sets of all types of fractions and asks	Whole class pariticipates in the activity and ascertains learning of the concept	every child learns the concept through the learning acitivity. $\frac{4}{3}$ $\frac{5}{3}$ $\frac{6}{3}$ $\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$ $\frac{2}{3}$	
Spes of Fractions Fractions Fractions Impreprie Fractions Impreprie Fractions Accessor 2 Determinator 6 7 8	them to seggregate, classify and represent on the number line String Fractions on Number Line Mixed Fractions Mixed Fractions The Property Color of Table 1 and Table 2 an	WHOLE OR MIXED FORM TO FRA $2\frac{3}{5} = \frac{2}{5}$ $\frac{3}{5} = \frac{2}{3}$ WHOLE OR MIXED FORM TO FRA $\frac{23}{5} = \frac{2}{3}$ $\frac{3}{5} = \frac{1}{3}$ $\frac{3}{3} + \frac{1}{3} = \frac{7}{3}$ $1 + \frac{1}{3} = 2\frac{1}{3}$	CCTION FORM 13 5	
SUMMARY	Techer writes the summary and procedure adopted in representing fractions on number line and converting mixed to improper and vice versa and asks children to read write and note	pupils will note down and read in groups	every individual reads the summary and notes it down	
ASSESSMENT	Teacher gives some questions under Try these section and exercise 7.1 and asks children to solve	every group will do the sums by discussion among each other	every individual solves the sums on their own	

PRACTICE PERIOD: 1,2,3	INTRODUCTION, A FRACTION, FRACTION ON THE NUMBER LINE, PROPER FRACTIONS, IMPROPER AND MIXED FRACTIONS			
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY (YOU DO)	
KEY WORDS READING	Teacher writes the key words from previous class's teaching period and asks children to read and write them in note books # fraction # Portion # Part of a whole # Numerator # Denominator # Fraction Bar # vinculum # Proper fraction # Improper fraction # Mixed fraction # combination # convertion # Divisor # Quotient # divident # Remainder	Whole class activity: one child comes to the board and reads the key words loudly and the remaining class follows.	Every child comes to the board and reads the key words and notes them down in their note books	
SIMILAR LINES READING Conversion of Mixed Fraction to Improper Fraction $ \frac{Add}{2\frac{3}{4}} = \frac{(4 \times 2) + 4}{4} $ Multiply	Teacher converts some improper fractions into mixed and vice versa, represents some fractions on number line and asks children to do some more by watching similar lines. **Number Line Model** Fractions** **Representing Mixed Fraction on a Number Line** **Author Line** **Representing Mixed Fraction on a Number Line** **Author Line** **Au	Each group will observe the similar lines and will frame some more by discussion 9 10 11 12 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Every Individual will frame some more using similar lines $ \frac{4}{3)14} \rightarrow 4\frac{2}{3} $ Mixed Number	
SUMMARY/ SYNOPSIS	Teacher once again writes important key words and procedures and asks children to spell, read,note down and practice.	pupils will note down and read the summary in groups	every individual spells and reads the summary and notes it down	
WRITING/ EDITING	Teacher gives some sums related to try these section and sums of exercise 7.1 & 7.2 and asks children to write them and checks the writings of children	One group will check the writings of the other and vice versa	Slow learners are focused and teacher will ascertain that every individual learns the concept	

TEACHING PERIOD : 4,5,6	EQUIVALENT FRACTIONS, SIMPLEST FORM OF A FRACTION, LIKE FRACTION, COMPARING LIKE FRACTIONS COMPARING UNLIKE FRACTIONS			
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY (YOU DO)	
KEY WORDS	Brain storming session invoving children with key words # Equivalent fraction # Simplest form # Like fraction # Unlike fraction # Comparision	* Students read the keywords answer the questions to the teacher (whole class activity)	Every Pupil will read and write the key words in their note books	
CONCEPTUAL UNDERSTANDING	Teacher introduces the concept of equivalent fractions by an activity involving children where pupil groups are given fraction cards displaying equivalent fractions but in disguised forms. By displaying each card teacher asks the fraction involved in it and finally draws the attention of children at all the cards in which irrespective of the fraction, the portion shaded in the card is equal. With this teacher concludes that equivalent fractions are developed out by multiplying both the numerator and denominator of a fraction with same number. Later teacher illustrates the concept of writing a fraction in its simplest form	Each group will understand the concepts by participation in the activity	every child learns the concept through the learning acitivity and observation of TLM	
LEARNING ACTIVITY Like Fractions. 1/5 2/5 4/5	by dividing both the numerator and the denominator with their HCF. Teacher explains children ordering the like fractions and guides them with a clue that in the given like fractions, the fraction with lowest numerator will be the smallest and so on. In the case of unlike fractions also teacher guides children with some clue where if all the numerators of the given unlike fractions are equal, then fraction with lowest denominator will be the greatest fraction and so on Later teacher demonstrates ordering of other unlike fractions by finding LCM of all the denominators through some exemplary illustrations	25 19 17 15 5 26 26 26 26 26 26 rest Smallest Descending order		
SUMMARY	Teacher once again writes important key words and procedures and asks children to note down and adopt.	Pupils will note down and read the summary in groups	Every individual reads the summary and notes it down and adopts the procedure	
ASSESSMENT	Teacher gives some questions from Try These sections as well as sums of exercise 7.3 & 7.4 and asks children to solve those sums	Every group will do the sums by discussion among each other	Every individual solves the sums on their own	

PRACTICE PERIODS: 4.5.6,7	EQUIVALENT FRACTIONS, SIMPLEST FORM OF A FRACTION, LIKE FRACTION, COMPARING LIKE FRACTIONS COMPARING UNLIKE FRACTIONS			
CONCEPTS/STEPS	TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY (YOU DO)	
KEY WORDS READING	children to read and write them in note books child comes to the board and		Every child comes to the board and reads the key words and notes them down in their note books Every Individual will do a few	
SIMILAR LINES READING	Teacher will arrange some like fractions and unlike fractions in ascending order and reduces some fractions to their simplest form and asks children to do some more by watching similar lines	fractions to their simplest form and asks children similar lines and will frame		
Write in simplest form. a. $\frac{10}{42} = \frac{5 \cdot 2}{21 \cdot 2} = \frac{5}{21} \cdot 1 = \frac{5}{21}$ b. $\frac{9}{27} - \frac{3 \cdot 3}{3 \cdot 3 \cdot 3} - \frac{3}{3} \cdot \frac{3}{3} \cdot \frac{1}{3} - \frac{1}{3}$ c. $\frac{8}{36} = \frac{4 \cdot 2}{4 \cdot 9} = 1 \cdot \frac{2}{9} = \frac{2}{9}$	Fractions with the same denominator The larger the numerator, the larger the fraction 1. Identify the denominators: 4, 5 and 2. Ascertain their LCM which is 60 3. Put the fraction under the same LCM shown below: $ \frac{1}{5} \frac{2}{5} \frac{3}{5} \frac{4}{5} \frac{5}{5} $ From the new remaining we can easily a the fractions in ascending order as: $ \frac{2}{3}, \frac{3}{4}, \frac{4}{5} = \frac{48}{5}, \frac{2}{5} = \frac{40}{60}, \frac{2}{5} = \frac{40}{60} $	d A cs	datural ju ID+RIS was rot foard rri Je file.	
SUMMARY/ SYNOPSIS	Teacher once again writes important key words and definitions and asks children to note down and adopt.	, ,		
WRITING/ EDITING	Teacher gives some questions from Exercise 7.3 & 7.4 and asks children to solve those sums and teacher checks the writings of children	One group will check the writings of the other and vice versa	able to learn the concept in successive upcoming practice sessions	

TEACHING PERIOD : 7,8,9	ADDITION AND SUBTRACTION OF FRACTIONS, ADDING OR SUBTRACTING LIKE FRACTIONS, ADDING OR			
CONCEPTS/STEPS	SUBTRACTING FRA TEACHER ACTIVITY (I DO)	GROUP ACTIVITY (WE DO)	INDIVIDUAL ACTIVITY (YOU DO)	
KEY WORDS	Brain storming session invoving children with key words #Addition of fractions # Subtraction of fractions	* Students read the keywords answer the questions to the teacher (whole class activity)	Every Pupil will read and write the key words in their note books	
CONCEPTUAL UNDERSTANDING	Teacher demonstrates the concept of adding and subtracting like fractions both pictorially as well as mathematically. Here teacher guides children that addition or subtraction of like fractions is simple and easy as since the denominators are equal it is enough if we add or subtract numerators as the case may be. In the case of unlike fractions teacher illustrates some exemplary sums and demonstrates as to how we convert unlike fractions into like fractions by finding equivalent fractions through LCM and add or subtract accordingly as the case may be.	Each group will learn about the process of addition & subtraction of fractions through discussion How To Add/Subtraction is multiples of 3 = 3, 6, 5, 1, 13	Wethod of prime numbers 2, 15 $\frac{5}{12} + \frac{6}{17} + \frac{7}{20}$	
Adding And Subtractions Like Fractions 3 + 7 / 13 + 2 / 13 - 5 / 11 =	$\frac{1}{3} = \frac{13}{12}$ $\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$	Multiply the denominators $ \frac{7}{7} \frac{3}{5} + \frac{4}{7} \left(\frac{5}{5} \right) - \frac{5}{5} \times 7 - 35 $ $ \frac{2}{35} + \frac{25}{25} - \frac{41}{35} = 1 \frac{6}{35} $ $ \frac{2}{35} + \frac{2}{35} - \frac{3}{35} = 1 \frac{6}{35} $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
SUMMARY	Teacher writes the key words and the procedure of addition &subtraction and asks children to note down the summary and adopt	Pupils will note down and read the summary in groups Every individual reads the summary and notes it down and adopts the procedure		
ASSESSMENT	Teacher gives some questions from exercise 7.5 & 7.6 and asks children to solve those sums	Every group will do the sums by discussion among each other	Every individual solves the sums on their own	

