

SUBJECT : MATHEMATICS

CLASS : VI

TOPIC : DECIMALS

Pre-Content/Content/Post-Content	Learning Outcomes/Objectives	
	General	Specific
<u>PRE-CONTENT</u> - Define Decimals <u>CONTENT</u> - Decimals - Expanded form - Conversions - Comparing and Ordering Decimals - Use of decimals - Operations on Decimals -Addition -Subtraction <u>POST-CONTENT</u> - Exposure to various application based problems	Students will be able to ✓ recall the knowledge of decimals ✓ locate decimals on the place value chart ✓ express decimals in expanded form ✓ convert decimals to fractions ✓ compare and order decimals ✓ use decimals in expressing weight length and capacity ✓ understand basic units of conversion ✓ understand and perform operations on decimal numbers ✓ analyze, correlate, apply and simplify application based real life problems	Students will be able to ✓ recall fractions and decimal numbers ✓ recognize the place and place value of each digit in given number ✓ express the decimals in expanded form ✓ convert the decimals into fractions and vice-versa ✓ compare two decimal numbers and express the decimals in ascending or descending order ✓ express weight, length and capacity using decimals ✓ learn to convert decimal numbers given in 1 unit to the other unit ✓ understand basic operations on decimals and apply the method of simplification in solving various questions ✓ analyze the problem and apply basic operations and conversions to solve application based problems

Home Work /Assignments:

1. NCERT exercise/solved examples given as home task.
2. Extra practice questions.

MONTH : OCTOBER'20
TIME : POST-MID TERM

Teacher's Activity	Student's Activity	Teacher's observation and Remedial
Teacher will explain the process of locating decimals numbers with the help of place value chart. explain the method of converting decimals numbers to fractions and vice-versa. takes up examples for comparison using place value chart. discuss about basic units of conversions and give examples to show the conversions. explain the method of applying operations in decimal numbers and conduct the activity to add decimal numbers. (Annexure-8) give various application based problems.	Students will follow instructions and write the numbers in the expanded form. understand the method and apply the same in further questions and do the conversions. compare and arrange the decimals in ascending and descending order. apply and convert from one unit to another unit and solve the problems. understand the method and apply different operations on decimal numbers and perform the activity as per the instructions given, to add decimal numbers and write their observations. (Annexure-8) apply the learnt methods in solving various problems.	Teacher will write his/her observations after the completion of the topic.

Teaching Aids: Smart board, ICR, Flash cards.

Methodology/Innovative Methods: Discussion, Brain storming, Activity oriented.

Interdisciplinary Links: Linked with Art, Real life.

H.O.D

Coordinator

Vice-Principal

Principal

Annexure-8

Subject	MATHEMATICS
Class	VI
Chapter/Unit	Decimals
Topic	Addition of Decimals
Time	30 minutes
Nature of Activity	Group

What will I learn (Learning outcome)?

To perform addition of decimals.

Skills:- Psychomotor Coordination, Critical Thinking, Problem Solving, Examining, Assimilating

What I have to do?

To perform addition of decimals by playway method.

What do I require?

Thick paper, pair of scissors, sketch pen and adhesive.

What do I need to know?

Concept of Decimals, Conversion of Unlike to Like decimals and Basic fundamental operations.

➤ **Teacher's Activity**

Teacher will

- enable the students to recall the concept of decimals, conversion of unlike to like decimals and discuss basic fundamental operations.
- make groups of four students and will explain the steps of the activity.

How will I proceed?➤ **Student's Activity**

- Each group will take a thick sheet of paper and make 20 same sized square or rectangular cards.
- Write different decimal numbers on each card (upto two decimal places) using sketch pen as shown in Fig.1.

0.4	0.15	0.1	0.7	0.75	0.5	0.85	0.2	0.05	0.35
0.9	0.8	0.55	0.50	0.65	0.3	0.95	0.45	0.6	0.25

Fig.1

- Mix all the cards and place them face down on the table. Now, one student from each group will pick any two cards at a time and add the decimal number written on them. If the sum is 1, the student will keep the cards with him/her and if the sum is not 1, then he/she will put the cards back face down.
- Then, the second student will pick two cards and repeat the above steps and this process will continue till all the cards are picked up.
- The student with maximum number of cards is the winner in that group and this can be further continued among the winners of all the groups to decide the winner of the whole class.

What have I observed?

Complete the following table:

Student	Number on first card	Number on second card	Sum
1			
2			
3			
4			

What have I learnt?

To perform _____ of decimals.

What am I curious to know?

Form any five possibilities to get the sum of two decimal numbers as 5.

Let me evaluate myself

1. Find the sum of:

(a) $12.34 + 25.5 + 36.9$

(b) $32.5 + 10.75 + 23.8 + 87.36$

2. Albert is 13.7 years old. If he is 1.8 years older than his brother James, how old is James?

3. Fill in the blanks using appropriate sign:

(a) $3.5 \underline{\hspace{1cm}} 3.50$

(b) $24.6 \underline{\hspace{1cm}} 42.6$

(c) $11.15 \underline{\hspace{1cm}} 11.51$

(d) $6.78 \underline{\hspace{1cm}} 6.67$

(e) $100.6 \underline{\hspace{1cm}} 100.06$

4. Anmol travelled 3.5 km by car and 1.6 km on foot to reach school. How much distance travelled by him?

5. Sonu spends Rs. 87.75 for Maths book, Rs. 74.65 for Science book and Rs. 38.46 for English book. Find the total amount spent by Sonu.
