

SUBJECT: MATHEMATICS**LESSON PLAN****TOPIC: HOW MANY TIMES?****CHAPTER NUMBER: 9**

<u>PRE CONTENT / CONTENT / POST CONTENT</u>	<u>LEARNING OUTCOME / OBJECTIVES</u>	
<u>HOW MANY TIMES ?</u>	<u>GENERAL</u>	<u>SPECIFIC</u>
<u>PRE-CONTENT</u> • Multiplication as repeated addition. <u>CONTENT</u> • Multiplication facts (role of 0 and 1). • Multiplication Tree • Multiplying by 1 or 2 digit multiplier <u>POST CONTENT</u> • Word problems on multiplication	Students will be able to :- relate the concept of multiplication with addition. extrapolate the properties of multiplication and role of 0 and 1 in multiplying. assimilate multiplication tables of any given number. understand multiplication by 1 or 2 digit multiplier using box method. correlate multiplication operation as tool for quick mental calculations.	Students will be able to :- analyze the concept of multiplication as repeated addition. identify 1 as multiplicative identity and the role of 0 in multiplication. identify the terms related to multiplication such as factors and product. apply the concept in multiplication algorithm. develop creative thinking and problem solving ability.

Home Work / Assignments

- Problems from Math Magic.

AND PROGRESSMONTH : OCTOBERCLASS - III

<u>TEACHER'S ACTIVITY</u>	<u>STUDENT'S ACTIVITY</u>	<u>TEACHER'S OBSERVATION & REMEDIAL</u>
Teacher will <u>ANNEXURE 9</u> introduce multiplication as repeated addition through an activity using broomsticks/ toothpicks and convert addition facts to multiplication facts. explain the role of 0 and 1 and play a multiplication clap game to make teaching learning process joyful. define the terms related to multiplication and apply in solving the multiplication tree. demonstrate algorithm of multiplying by 1 or 2 digit multiplier. explain word problems and help students to analyze the need of multiplication as operation.	Students will <u>ANNEXURE 9</u> perform the activity and to strengthen the concept of multiplication facts by solving questions given in NCERT book Pg – 122 to 124. assimilate the role of 0 and 1 and participate in the game by clapping on the multiples of any given number and compute the problems given in NCERT Book Pg – 126. memorize the tables and solve problems given in NCERT book Pg – 133. understand the algorithm of multiplication and apply it for solving different problems in their notebooks given in the book Pg – 138,139 & 141. compute and comprehend the word problems on pg – 125 & 138 in NCERT book.	Teacher will write his/her observations after the completion of the topic/s.

Teaching aids – Matchsticks /toothpicks, Smart board, Internet, Textbook- Math Magic.

Methodology– Inductive Method, Peer learning, learning by doing (activity method) and Digital Technology.

Interdisciplinary Links – Develop listening skill during class activities, critical thinking and problem solving ability.

Coordinator

HOD

Headmistress

Principal

ANNEXURE 9

HOW MANY TIMES?

SUBJECT	MATHEMATICS
CLASS	III
CHAPTER/UNIT	HOW MANY TIMES?
TOPIC	MULTIPLICATION AS REPEATED ADDITION
TIME	30 MINUTES
NATURE OF ACTIVITY	INDIVIDUAL

What will I learn (Learning Outcome)?

Representing multiplication as repeated addition through learning by doing.

Skills: Understanding, Applying, Creating, Evaluating.

What I have to do?

To observe pattern in multiplication.

What do I require?

A4 size sheet, some matchsticks/ toothpicks/ broom sticks, adhesive, sketch pen, pencil and eraser.

What do I need to know?

Expressing addition facts as multiplication facts and vice versa.

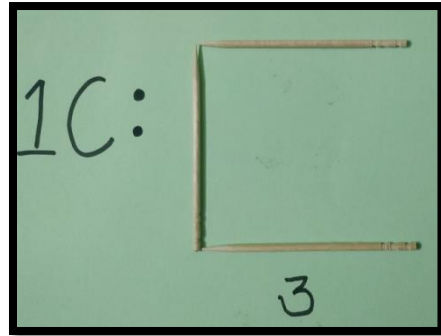
➤ Teacher's Activity :

The teacher will recall that how to convert addition facts to multiplication facts and vice versa.

How will I proceed?

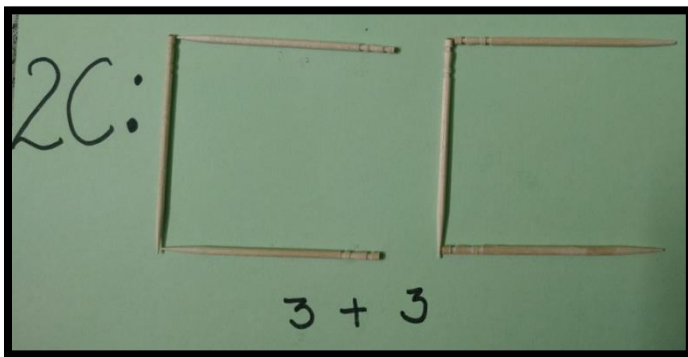
➤ Student's Activity :

- 1) Take 3 toothpicks / matchsticks / broom sticks, use them to make an English alphabet C and paste it on the A4 size sheet. (as shown in Fig.1)



(Fig. No. 1)

- 2) Now make C two times using toothpicks / matchsticks / broom sticks and again paste it on the same sheet.(refer Fig. No. 2).



(Fig. No. 2)

- 3) Repeat this process 3 more times by increasing 1 C on each step.
 4) Observe the pattern and write its multiplication fact as Number of times C is formed $\times$ Number of sticks used to make one C. Eg: For 1C , Multiplication Fact will be 1×3 and so on.

What have I observed?

Number of letter C	Multiplication Fact	Addition Fact	Total number of sticks used
1C			
2C			
3C			
4C			
5C			

What have I learnt?

Multiplication is the process of repeated addition.

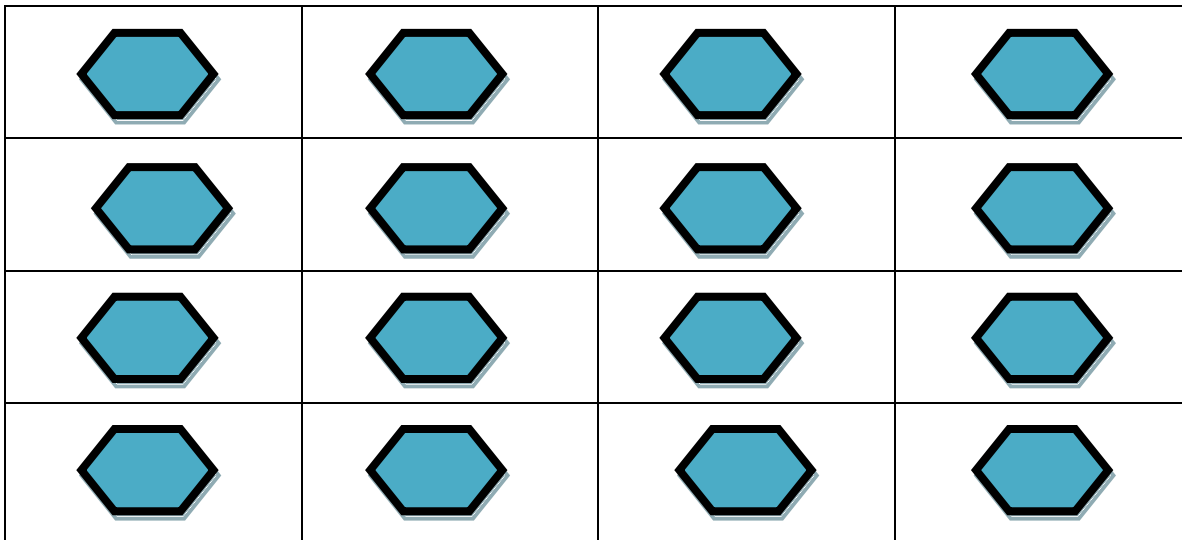
What am I curious to know?

Which English alphabet or mathematical number should I select to make multiplication table of 6?

Let me evaluate myself

Q1) Use repeated addition to find the total number of objects in equal groups shown below.
Also write its corresponding multiplication fact.

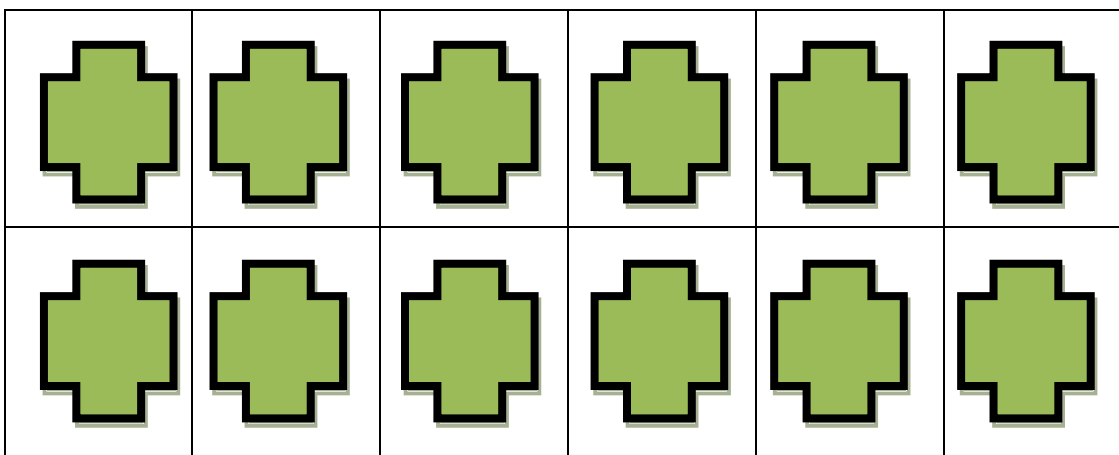
(a)



Addition fact = ____ + ____ + ____ + ____

Multiplication fact = ____ × ____

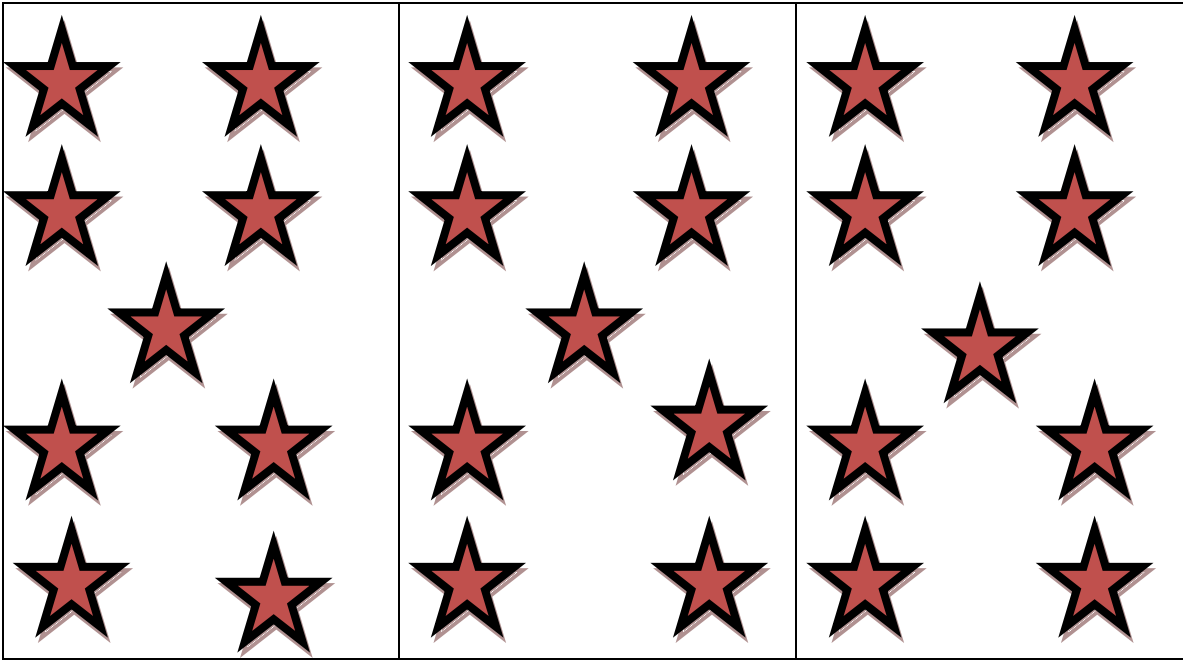
(b)



Addition fact = ____ + ____ + ____ + ____ + ____ + ____

Multiplication fact = ____ × ____

(c)



Addition fact = ____ + ____ + ____

Multiplication fact = ____ $\times$ ____

Q2) Express the following as Addition Fact.

(a) $15 \times 4 =$ _____

(b) $20 \times 6 =$ _____

(c) $18 \times 3 =$ _____

(d) $9 \times 4 =$ _____