TOPIC- Multiples and Factors

BRIEF DESCRIPTION   Understanding multiples and factors, divisibility rules, prime and composite numbers, prime factorization, HCF & LCM , their relationship and story sums of HCF

OBJECTIVES:

I- Specific Objectives-

To enable the students to –
SP1- Recapitulate properties of multiples and factors. (Knowledge)
SP2- Recapitulate divisibility rules. (Knowledge)
SP3- Develop an understanding of prime and composite numbers. (Understanding)
SP4- Learn to express composite numbers as product of prime numbers. (Understanding)
SP5- Develop an understanding of HCF and LCM. (Understanding)
SP6- Learn relationship between HCF and LCM. (Analysis)
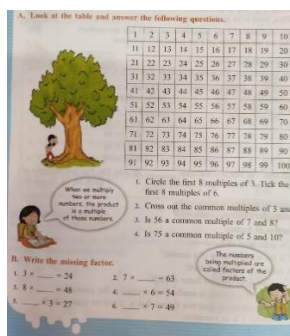
II- Behavioural Objectives

To enable the students to-
B1- co-relate the multiples and factors in everyday life.(Analysis)
B2- apply HCF in day to day practice. (Application)
PROCESS/ACTIVITIES –

 ACT 1- Warm up activity given in the book.

ACT 2- To find the LCM using square lined paper.
ACT 3- To find the Prime number. (path activity)

Name: _____

Prime Number Path

Color the boxes with prime numbers in them.
Can you make a trail to help the mouse find the cheese?

4	22	19	29	43	6	55	14	26	98	8
5	11	23	8	2	63	121				32
54	4	72	56	11	30	144				63
81	16	24	34	17	13	6				26

25	36	40	9	72	35	6	20	46	101	132		12
18	71	5	3	29	11	61	42	100	89	92	10	110	56	4
15	89	80	22	36	80	41	53	7	17	65	18	32	6	46
103	54	38	75	52	28	55	30	45	102	42	99	22	30	90
7	40	88					82	24	54	8	36	25	15	33
83	26					63	73	61	47	5	23	100	1
23	59	20				18	3	16	4	104	7	6	32
4	11	76				84	13	48	109
3	19	25				65	37	10	14
97	77	98	34	92	110	121	8	101	63	116
79	13	7	5	17	73	2	43	31	105	50

Mental Maths questions (given in the book)

Life Skills Questions. (Given in the book)

Worksheet given in the book

Practice Sheet

Skills (as per topic)
Understanding, logical reasoning, calculation, analysis

ASSESSMENT:

A1- Monthly tests

A2- Term I Assessment.

EXPECTED LEARNING OUTCOMES:
Students will be able to:

1- revise the properties of multiples and factors.

2- learn and apply divisibility rules.

3- differentiate between prime and composite numbers.

4- find the prime factorization using prime factorization & factor tree method.

5- calculate the HCF and LCM.

6- understand and verify relationship between HCF and LCM.

Placement of objective, Instructional Activities and Assessment

	Knowledge	Understanding	Application	Analysis	Synthesis	Evaluation
Topic/Duration/ Assessment Topic: Multiples and factors						
Objectives	SP1 SP2	SP3 SP4 SP5	B2	SP6 B1		
Instructional Activities	ACT 1	ACT 2 ACT3				
Assessment	A1 A2	A1 A2	A1 A2			