

# Mathematics (Grade-5)

DA YS	TOPIC	SUB TOPIC	LEARNING OBJECTIVE
1	Ch-1 (The Fish Tale)	Indian and international place value chart	To enable the students to recall their previous knowledge and learn more about place value charts
2		<b>Art integrated activity/Maths lab activity-</b> Making place value chart on A-4 size sheet/notebook Abacus to find place values	To enable the students to make place value charts in a creative way and find the place values
3		Reading and writing large numbers in word and figures	To enable the students to write large numbers in words & figures
4		Place value, face value	To enable the students to differentiate between place value and face value
5		Expanded form, standard form	To enable the students to write standard and expanded forms of the given numbers
6		Successor, predecessor, Ordering of numbers	To enable the students to write successor & predecessor of the given numbers and also they will be able to arrange large numbers in ascending & descending order
7		Forming greatest and smallest numbers, Rounding off the numbers	To enable the students to form smallest & greatest number with the given digits and to round off the given numbers to the nearest 10, 100 & 1000
8		Profit and loss concept with Word problems	To enable the students to understand profit & loss concept with real life examples of buying & selling the things and to solve real life problems related to profit & loss
9		Recapitulation of chapter	To enable the students to revise all the topics & ask their doubts from the chapter
10		Class test of Ch-1	To enable the students to know how much they have learnt and do the corrections of the mistakes done in the test

11	Ch-13 (Ways to multiply and divide)	Multiplication by column method	To enable the students to learn new method of multiplication
12		<b>Game activity/Maths lab activity-</b> solving using multiplication Puzzle Geo-board	To enable students to solve multiplication based puzzle which will improve their calculations
13		Multiplication by distributive property	To enable students to understand distributive property of multiplication & solve the questions accordingly
14		Properties of multiplication	To enable students to know the properties of multiplication
15		Word problems based on multiplication	To enable students to solve real life problems related to multiplication
16		Long division method and formula for verification	To enable students to recall long division method and will also be able to learn the verification method of division
17		Properties of division	To enable students to know and understand the properties of division
18		Word problems based on division	To enable students to solve real life problems related to division
19		Mixed word problems	To enable students to solve real life problems related to multiplication & division
20		Recapitulation of chapter	To enable the students to revise all the topics & ask their doubts from the chapter
21		Class test of Ch-13	To enable the students to know how much they have learnt and do the corrections of the mistakes done in the test
22	Ch-8 (Mapping your way)	Introduction of directions and observing map	To enable the students to recall their previous knowledge about four major directions and observe the given map
23		<b>Art integrated activity/Maths lab activity-</b> Drawing map of school and showing important places on it	To enable the students to enhance their learning and use the concept of scale in making map

24		Paste political map of India and write the answer of given questions	To enable the students to know about political map and recognize directions in different contexts
25		Recapitulation of chapter	To enable the students to revise all the topics & ask their doubts from the chapter
26		Class test of Ch-8	To enable the students to know how much they have learnt and do the corrections of the mistakes done in the test
27	PT-1	<b>PT-1 revision</b>	To enable the students to recall their learnings from the chapter
28		<b>Combined test for PT-1</b>	To enable the students to know how much they have learnt and do the corrections of the mistakes done in the test
29	Ch-4 (Parts and wholes)	Introduction to fractions and its types	To enable the students to understand fractions by real life examples and represent $\frac{1}{2}$ , $\frac{3}{4}$ , $\frac{1}{3}$ ... part of a collection by shading
30		Art integrated activity/Maths lab activity- Making fraction bird or fraction fish with different cutting of fraction parts from colourful origami sheets	To enable the students to do the activity with different fractions which will enhance their knowledge about fractions
31		Proper fraction, improper fraction and mixed fraction	To enable the students to know about different types of fractions with examples and recognize equivalence in fractions)
32		Equivalent fractions	To enable the students to find equivalent fractions of the given fraction
33		Reducing fractions into lowest terms	To enable the students to understand how to reduce the given fraction by division
34		Comparing fractions	To enable the students to compare fractions ( $\frac{1}{2}$ , $\frac{1}{3}$ , $\frac{1}{4}$ , $\frac{3}{4}$ )
35		Order of fractions (ascending & descending)	To enable the students to write the given series of fractions in increasing and decreasing order

36		Addition and subtraction of fractions	To enable the students to add/subtract the given fractions
37		Multiplication and division of fractions	To enable the students to know how to multiply and divide the given fractions & reduce it to the lowest terms
38		Word problems	To enable the students to solve real life problems related to
39		Recapitulation of chapter	To enable the students to revise all the topics & ask their doubts from the chapter
40		Class test of Ch-4	To enable the students to know how much they have learnt and do the corrections of the mistakes done in the test
41	Ch-6 (Be my multiple,	Introduction to multiples and factors	To enable the students to identify and define multiples & factors of a number
42		Art integrated activity/Maths lab activity- Making colourful grid for finding factors and multiples	To enable the students to make grid of factors & multiples
43		Find multiples of given numbers	To enable the students to find multiples of given numbers by reading tables
44		Find factors of given numbers (factor tree method)	To enable the students to find factors of given numbers using factor tree method
45		Common factors and multiples	To enable the students to know about common factors and multiples. Also, they will find it
46		Divisibility tests by 2, 3, 5, 10	To enable the students to learn about divisibility rules and will give answers according to the rules
47		Prime and composite numbers (Making sieve of Eratosthenes)	To enable the students to know and define prime & composite numbers. Also, will be able to find these numbers by making sieve of Eratosthenes

48		Prime factorisation	To enable the students to find prime factors of the given number by division method
49		LCM	To enable the students to find LCM of two or more numbers
50		HCF	To enable the students to find HCF of two or more numbers
51		Real life applications (Word problems)	To enable the students to solve real life applications based on LCM & HCF
52		Recapitulation of chapter	To enable the students to revise all the topics & ask their doubts from the chapter
53		Class test of Ch-6	To enable the students to know how much they have learnt and do the corrections of the mistakes done in the test
54	PT-2	<b>PT-2 revision</b>	To enable the students to recall their learnings from the chapter
55		<b>Combined test for PT-2</b>	To enable the students to know how much they have learnt and do the corrections of the mistakes done in the test
56	Ch-2 (Shapes and angles)	Introduction to angles and its types	To enable the students to know the meaning of angles and its types. Also, they will be able to know about ray, line, line segment, vertex
57		Art integrated activity/Maths lab activity- Making different types of angles with matchsticks or straws Protractor and ruler showing in lab to draw angles	To enable the students to identify and classify different types of angles
58		Drawing and measuring angles with protractor	To enable the students to understand how to read angles in protractor and how to draw the given measurement of angles
59		Drawing reflex angles	To enable the students to understand reflex angles and how to draw it by using protractor

60		Recapitulation of chapter	To enable the students to revise all the topics & ask their doubts from the chapter
61		Class test of ch-2	To enable the students to know how much they have learnt and do the corrections of the mistakes done in the test
62	Ch-10 (Tenths and hu	Introduction to decimals and Decimal place value chart	To enable the students understand about decimals concept & decimal place value chart
63		<b>Art integrated activity/Maths lab activity-</b> Make 10x10 grid and draw spiderman or any other cartoon character on it. Make an observation table to write	To enable the students to write the shaded part of the given picture in fraction form and decimal form
64		Decimals in words and figures	To enable the students to write the decimal numbers in words and figures
65		Express fractions in decimal form	To enable the students to write fraction form of numbers in decimal form
66		Find place value on underlined digit in given decimal number	To enable the students to write the place value after understanding the decimal place value chart
67		Write decimals in expanded form/standard form	To enable the students to write the expanded/standard form of decimal numbers
68		Like and unlike decimals; Comparing decimals	To enable the students identify and compare like & unlike decimals
69		Ordering of decimals	To enable the students to arrange decimals in ascending and descending order
70		Addition and subtraction of decimal numbers	To enable the students to add/subtract the decimal numbers by arranging them according to their places
71		Multiplication and division of decimal numbers	To enable the students to find the product of two decimal numbers and placing the decimal at correct place

72		Word problems	To enable the students to solve real life applications which will help them to enhance their thinking skills
73		Recapitulation of chapter	To enable the students to revise all the topics & ask their doubts from the chapter
74	Half-yearly exams	<b>Revision for half-yearly exams</b>	To enable the students to recall the topics and ask their queries
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79	Ch-3 (How many squares)	Introduction to perimeter and area concept and find perimeter of given regular shape	To enable the students to define & differentiate between perimeter and area with the help of objects present in the classroom like blackboard, table, etc
80		<b>Art integrated activity/Maths lab activity-</b> Place and trace a leaf on a graph paper/1cm square grid. Count the numbers of squares to find area of leaf	To enable the students to learn how to find area of irregular shapes by counting the squares covered by that particular shape
81		Draw symmetrical shapes on graph paper	To enable the students to understand concept of symmetry and draw another symmetrical part of given incomplete shape on a graph paper or grid
82		Tiling patterns	To enable the students to complete the tiling patterns after observing the given pattern
83		Recapitulation of chapter	Students will be able to revise all the topics & ask their doubts from the chapter

84		Class test of Ch-3	Students will be able to know how much they have learnt and do the corrections of the mistakes done in the test
85	Ch-11 (Area and its bo	Formula of perimeter and area of square & rectangle	To enable the students to understand the derivation of formulas of perimeter and area which will help them to learn it easily
86		<b>Art integrated activity/maths lab activity-</b> Draw/paste regular shapes on a graph paper and find its perimeter	To enable the students to make more irregula/regular shapes on grid/graph paper to find the perimeter
87		Calculate perimeter of cube/cuboid by using formula	To enable the students find perimeter by using formula
88		Calculate area of cube/cuboid by using formula	To enable the students find area by using formula
89		Word problems based on perimeter and area	To enable the students to solve word problems by understanding the meaning of question and how to do the solution stepwise
90		Recapitulation of chapter	To enable the students to revise all the topics & ask their doubts from the chapter
91		Class test of Ch-11	To enable the students to know how much they have learnt and do the corrections of the mistakes done in the test
92	PT-3	<b>PT-3 revision</b>	To enable the students to recall their learnings from the chapter
93		<b>Combined PT-3 test</b>	To enable the students to know how much they have learnt and do the corrections of the mistakes done in the test
94	Ch-5(Does it look the	Introduction to symmetry, lines of symmetry for 2-D figures	To enable the students to understand symmetry and how to draw symmetrical shapes
95		Art integrated activity/Maths lab activity- Paste pictures of any 4-5 symmetrical monuments of the world in notebook or A-4 size sheet	To enable the students to explore more about symmetrycal shapes from surroundings



96		Rotational symmetry and Order of rotation	To enable the students to learn about rotational symmetry and how to find order of rotation
97		Recapitulation of chapter	To enable the students to revise all the topics & ask their doubts from the chapter
98		Class test of Ch-5	To enable the students to know how much they have learnt and do the corrections of the mistakes done in the test
99	Ch-7 (Can you see the)	Observing patterns and draw the next one	To enable the students to observe patterns according to their observation from their previous knowledge
100		Art integrated activity/Maths lab activity- Making shapes pattern with bindis, match sticks, pulses,, rice and number patterns with sheets cuttings, decorative	To enable the students to enhance their thinking of making patterns on their own which will let them explore the topic more
101		Magic squares	To enable the students to observe the magic squares horizontally, vertically and diagonally to find the given sum
102		Special patterns	To enable the students to observe the patterns given in pyramid form
103		Recapitulation of chapter	To enable the students to revise all the topics & ask their doubts from the chapter
104		Class test of Ch-7	To enable the students to know how much they have learnt and do the corrections of the mistakes done in the test
105	Ch-9 (Boxes and sket	Identifying 2-D and 3-D shapes	To enable the students to identify and differntiate between 2-D & 3-D shapes by exploring the real life objects
106		Nets of 3-D shapes	To enable the students to understand the net structure of 3-D shapes (Cube, cuboid, cylinder, cone and square pyramid)
107		Art integrated activity/Maths lab activity- Make net of dice OR making pull up nets of 3-D shapes using coloured sheets & thread Showing 3-D shapes in	To enable the students to make the net of a 3-D shape so that they can understand the concept clearly

108		Different views of an object	To enable the students to view an object from top, front and side
109		Recapitulation of chapter	To enable the students to revise all the topics & ask their doubts from the chapter
110		Class test of Ch-9	To enable the students to know how much they have learnt and do the corrections of the mistakes done in the test
111	Ch-12 (Smart charts)	Introduction to smart charts and its related concepts & types	To enable the students to know about smart charts, their uses and types
112		Tally marks table	To enable the students to draw tally marks of the given data in a tabular form
113		<b>Art integrated activity/Maths lab activity-</b> Making a bar graph with coloured strips on a sheet to show monthly expenditure of your family	To enable the students to know about bar graph in detail and how to give answers by reading the bar graph by doing the activity
114		Drawing bar graph on a graph paper	To enable the students to represent the data related to their family expenses in bar graph so that they can easily identify how much amount has been spent on every expenditure
115		Observing & drawing pictograph	To enable the students to know about pictograph and information represented by it and draw pictograph with correct scale (pictures) to represent the data
116		Observing pie chart	To enable the students to understand pie chart and find the answers of the questions related to it
117		Recapitulation of chapter	To enable the students to revise all the topics & ask their doubts from the chapter
118		Class test of Ch-12	To enable the students to know how much they have learnt and do the corrections of the mistakes done in the test
119	Ch-14 (How big? How	Introduction to the concept of volume	To enable the students to define volume and its unit by giving examples

120		<b>Art integrated activity/Maths lab activity-</b> Making small sized cube/cuboid with coloured sheet and mentioning dimensions. Write formulas in front of	To enable the students to make cube, cuboid and mentioning its dimensions so that they can easily derive the formula of volume of cube/cuboid
121		Volume of cube and cuboid	To enable the students to find volume of cube/cuboid by using formula
122		Word problems	To enable the students to solve word problems by understanding the meaning of question and how to do the solution stepwise with formula
123		Recapitulation of chapter	To enable the students to revise all the topics & ask their doubts from the chapter
124		Class test of Ch-14	To enable the students to know how much they have learnt and do the corrections of the mistakes done in the test
125	PT-4	<b>Revision for PT-4</b>	To enable the students to recall their learnings from the chapter
126	Final-term exams	<b>Revision for final-term exams</b>	To enable the students to recall their learnings from the chapter
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129		<b>Revision for final-term exams</b>	To enable the students to recall their learnings from the chapter
130		<b>Revision for final-term exams</b>	To enable the students to recall their learnings from the chapter