

Mathematics (Grade-4)

DAYS	TOPIC	SUB TOPIC	LEARNING OBJECTIVE
1	Ch-1 (Building with bricks)	Introduction to solid shapes by showing different shapes	To enable the students to understand different types of solid shapes and their basic properties like number of faces, vertices, edges
2		Maths Lab activity/Art integrated activity- Identifying & making 2D and 3D shapes with blocks; Making bricks patterns with coloured rectangle cuttings	To enable the students to identify various block patterns in walls, floors and name them
3		Bricks facts (Fill ups)	To enable the students to give answers related to cuboid and cube shape after learning basic properties of cuboid & cube
4		Recapitulation of chapter	To enable the students to revise the topics and ask their doubts from the chapter
5		Class test of ch-1	To enable the students to know how much they have learnt in the chapter and do the corrections of their mistakes
6	Ch-2 (Long & short)	Measurement of length and distance using standard and non-standard units by showing different objects to compare the lengths	To enable the students to understand units to be used for measuring length & height of objects, distance between the given objects
7		Measuring length using ruler and comparison of lengths; draw line segments with ruler	To enable the students to measure the lengths of objects with ruler and draw line segments also
8		Conversion of units of length (m, cm, km)	To enable the students to convert the metre to centimetre and vice-versa

9		Maths Lab activity/Art integrated activity- Measure the different objects using ruler and tell the unit to be used to measure it. Students will order and compare lengths of objects	To enable the students to estimate the lengths of objects with ruler
10		Addition and subtraction of length	To enable the students to add/subtract the given measures of length
11		Word problems on Distance and time	To enable the students to solve daily life situations related to length and distance involving basic arithmetic operations
12		Recapitulation of chapter	To enable the students to revise the topics and ask their doubts from the chapter
13		Class test of ch-2	To enable the students to know how much they have learnt in the chapter and do the corrections of their mistakes
14	Ch-3 (A Trip to Bhopal)	Introduction of distance, speed and time by giving real life examples	To enable the students to understand the concept of distance, time and speed and also, their relationship in the form of formula
15		Maths Lab activity/Art integrated activity- Design a 'Travel Brochure'	To enable the students to understand how to mark distances, landmarks and calculate the time
16		Addition and subtraction of large numbers	To enable the students to arrange large numbers in vertical column and add/subtract them
17		Find the number more than/less than the given number	To enable the students to find more/less than the given number
18		Real life problems including distance, time and money	To enable the students to solve daily life situations related to distance, time and money involving basic arithmetic operations
19		Recapitulation of chapter	To enable the students to revise the topics and ask their doubts from the chapter

20		Class test of ch-3	To enable the students to know how much they have learnt in the chapter and do the corrections of their mistakes
21	Ch-4 (Tick-Tick-Tick)	Introduction to time and clock; Reading and showing of time	To enable the students to read the time and show it in the clock
22		Concept of AM & PM	To enable the students to understand AM & PM concept and write the time accordingly
23		Maths Lab activity/Art integrated activity- Time Collage or Clock making	To enable the students to make a time collage of their daily routine with time. They can also make a clock to represent the time in it as asked in the class
24		Concept of hours and minutes	To enable the student to understand the concept of hours & minutes so that students can write the time in 2 ways
25		12-hour clock and 24-hour clock	To enable the students to understand 12 hour and 24 hour clock concept and write the time in both the ways
26		Duration of time	To enable the students to find the duration between the two given times
27		Name of weekdays and months' names	To enable the students to learn the names of weekdays and months with spellings
28		Drawing calendar of the current month in notebook and read it	To enable the students to read the current month's calendar and answer the questions asked in the class
29		Write dates in short form and in word form	To enable the students to write the dates in short form and word form so that they can be familiar in writing the dates in two different forms
30		Number of Days passed between the given dates	To enable the students to count the number of days in all the months and find the number of days passed between two dates

31		Recapitulation of chapter	To enable the students to revise the topics and ask their doubts from the chapter
32		Class test of Ch-4	To enable the students to know how much they have learnt in the chapter and do the corrections of their mistakes
33	PT-1	PT-1 revision	To enable the students to recall the previous topics
34		Combined test for PT-1	To enable the students to know how much they have learnt in the chapter and do the corrections of their mistakes
35	Ch-8 (Carts & wheels)	Intoduction to circles and terms related to it	To enable the students to understand the concept of circle and know the terms related to it like centre, chord, radius and diameter
36		Maths lab Activity/Art integrated activity- Cut out a circle and mention its parts with colourful strips or decoratice material Showing circle kit	To enable the students to know more about the circle through activity
37		Relation between radius and diameter	To enable the students to understand the relationship between radius and diameter. Also, find the radius & diameter
38		Draw circles of given radii with compass	To enable the students to draw the circle with given radii by using compass
39		More about circles (Fill ups)	To enable the students to give answers related to the circle on their own after understanding the complete topic
40		Recapitulation of chapter	To enable the students to revise the topics and ask their doubts from the chapter
41		Class test of Ch-5	To enable the students to know how much they have learnt in the chapter and do the corrections of their mistakes

42	Ch-9 (Halves and quarters)	Introduction of fractions with real life examples and identifying the fractions	To enable the students to understand fractions with real life based examples and get familiar with its types
43		Maths lab Activity/Art integrated activity- Showing Fraction Kit/ making fraction album	To enable the students to know more about fractions and how to find $\frac{1}{2}$, $\frac{1}{3}$, $\frac{2}{6}$... in relation to the whole with the help of activity
44		Write fraction in words	To enable the students to write the fractions in word form and read it
45		Types of fractions	To enable the students to understand different types of fractions like proper fraction, improper fraction, unit fraction and mixed fraction with examples
46		Find the Equivalent fractions	To enable the students to understand equivalent fractions and find the equivalent fractions of the given fraction
47		Word problems based on fractions (Price list in tabular form)	To enable the students to solve real life problems in which price list is given in a tabular form and answers to be given by solving all the parts
48		Recapitulation of chapter	To enable the students to revise the topics and ask their doubts from the chapter
49		Class test of Ch-9	To enable the students to know how much they have learnt in the chapter and do the corrections of their mistakes
50	PT-2	PT-2 revision	To enable the students to recall the previous topics
51		Combined test for PT-2	To enable the students to know how much they have learnt in the chapter and do the corrections of their mistakes
52	Ch-11 (Tables and shares)	Introduction to multiplication (Multiplication facts with repeated addition) + Revision of tables from 2 to 10	To enable the students to recall their previous knowledge of tables and repeated addition method

53		Writing Tables from 11 to 15	To enable the students to learn and write tables
54		Multiplication of 2-digit and 3-digit numbers	To enable the students to multiply the numbers by arranging in column
55		Multiplication by using expanded form method	To enable the students to understand the expanded form of the number and then follow the distributive property for multiplication
56		Word problems based on multiplication	To enable the students to solve real life problems and understanding the concept
57		Introduction to division (Division facts with repeated subtraction)	To enable the students to understand repeated subtraction method of division
58		Maths lab activity/ art integrated activity- Puzzle solving based on division	To enable the students to learn more about division by puzzle solving activity
59		Concept of quotient, dividend, divisor and remainder	To enable the students to understand all the terms related to division
60		Long division method	To enable the students to understand long division method and write its dividend, quotient, divisor and remainder
61		Word problems related to division	To enable the students to solve the real life problems
62		Mixed word problems based on multiplication and division	To enable the students to apply correct arithmetic operation for different word problems
63		Recapitulation of chapter	To enable the students to revise the topics and ask their doubts from the chapter

64	Half-yearly exams	Revision for half-yearly exams	To enable the students to revise the topics and ask their doubts from the chapters
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69	Ch-6 (The Junk Seller)	Introduction of notes and coins by showing fake notes	To enable the students to understand indian currency, notes and coins with their symbols
70		Maths lab activity/art integrated activity- Paste fake notes and coins in notebook/ Tracing coins on a blank sheet	To enable the students to know more about notes and coins
71		Notes and coins (MCQs)	To enable the students solve the questions based on finding number of coins or total amount
72		Money- Addition and subtraction	To enable the students to add/subtract the given amount in decimal form
73		Find the number of notes and coins to find the given amount	To enable the students to find how many notes & coins are required to show the given amount
74		Word problems based on money	To enable the students solve real life problems based on money transaction

75		More Word problems based on money	To enable students to learn more about solving word problems
76		Introduction of loans, gain and loss concept	To enable the students to understand the concept with role playing activity or giving examples from daily life
77		Word problems based on loans, gain and loss	To enable the students to solve word problems
78		Recapitulation of chapter	To enable the students to revise the topics and ask their doubts from the chapter
79		Class test of Ch-6	To enable the students to know how much they have learnt in the chapter and do the corrections of their mistakes
80	Ch-7 (Jugs and mugs)	Introduction of measurement of liquids by giving real life based examples	To enable the students to understand capacity and how to measure it with units
81		Maths lab activity- Showing containers of different capacities and asking students to explore and compare capacities	To enable the students to understand how much liquid can be hold by different containers of various capacities
82		Conversion of units of measurement of capacity (L to mL)	To enable the student to convert the units from bigger to smaller by multiplication
83		Conversion of units of measurement of capacity (mL to L)	To enable the student to convert the units from smaller to bigger by division
84		Addition and subtraction involving measurement of capacity	To enable the students to add/subtract the given capacity
85		Word problems based on measurement of capacity	To enable the student to solve word problems by understanding it clearly

86		Recapitulation of chapter	To enable the students to revise the topics and ask their doubts from the chapter
87		Class test of Ch-7	To enable the students to know how much they have learnt in the chapter and do the corrections of their mistakes
88	Ch-10 (Play with patterns)	Shapes patterns and block patterns	To enable the students to understand pattern and recall their previous knowledge
89		Maths Lab activity/Art integrated activity- Making patterns with colourful beads and ask students to observe it OR making patterns with	To enable the students to make patterns on their own with their learning which will enhance their knowledge about patterns
90		Number patterns, tiling patterns and Secret message patterns	To enable the students to observe the given series of patterns and complete it and to understand the given alphabet table and find the code
91		Magic triangles	To enable the students to observe magic squares horizontally, vertically and diagonally to complete it according to the given sum
92		Tiling patterns	To enable the students to observe the tiling pattern and complete it
93		Recapitulation of chapter	To enable the students to revise the topics and ask their doubts from the chapter
94		Class test of Ch-10	To enable the students to know how much they have learnt in the chapter and do the corrections of their mistakes
95	PT-3	PT-3 revision	To enable the students to recall the previous topics
96		Combined test for PT-3	To enable the students to know how much they have learnt in the chapter and do the corrections of their mistakes

97	Ch-12 (How heavy? How light?)	Introduction to measurement of weight by giving real life examples	To enable the students to understand and their previous knowledge of measurement of weight and its units
98		Maths Lab Activity/Art integrated activity- Weight different objects using simple balance scale (Making balance scale using cups, strings)	To enable to understand the concept with the help of activity
99		Conversion of weight	To enable the student to convert the units from bigger to smaller and vice-versa by multiplication/division
100		Comparing weights, equivalent weights	To enable the students to compare the given weights and understand the equivalence of weights
101		Addition and subtraction of measurement of weight	To enable the students to add/subtract the given weights
102		Making one kilogram	To enable the student to make 1kg with the weights given in grams
103		Word problems based on measurement of weight	To enable the students to solve real life problems based on measurement of weight
104		Recapitulation of chapter	To enable the students to revise the topics and ask their doubts from the chapter
105		Class test of Ch-12	To enable the students to know how much they have learnt in the chapter and do the corrections of their mistakes
106	Ch-13 (Fields and fences)	Introduction to concept of perimeter and area	To enable the students to define the perimeter and area by showing different objects in classroom like blackboard, table, etc
107		Maths lab activity/Art integrated activity- Square grid activity on a graph paper (Introducing graph paper also)	To enable the students to make square grid on graph paper and find perimeter/area of given shape

108		Find the perimeter of given shapes (Length of boundary of given shape)	To enable the students to find perimeter of given shape by adding all the sides
109		Find the area of regular and irregular shapes drawn on a square grid.	To enable the students to find area of given shapes in a square grid
110		Formulas of perimeter and area of square & rectangle and questions related to it	To enable the students to learn and apply the formulas for finding the perimeter and area
111		Recapitulation of chapter	To enable the students to revise the topics and ask their doubts from the chapter
112		Class test of ch-13	To enable the students to know how much they have learnt in the chapter and do the corrections of their mistakes
113	Ch-14 (Smart charts)	Introduction to smart charts by giving them examples and introducing the terms like data collection and how to interpret the data	To enable the students to understand about smart charts, their uses and how to analyse the given data and then show it through different smart charts
114		Tally marks table	To enable the students to draw tally marks of the given data
115		Drawing and reading pictograph	To enable the students to represent the given information through pictograph
116		Reading and reading pie chart	To enable the students to know about pie chart and how to read the data shown by it
117		Introduction to bar graph and read data represented by it	To enable the students to define bar graph and how to analyse it for giving the answers
118		Maths lab activity/Art integrated activity- Making a bar graph of given data with coloured strips or a pictograph with different pictures in a	To enable the students to complete the activity which will make them clear about bar graph making

119		Representing given data through bar graph	To enable the students to draw bar graph to show the data
120		Recapitulation of chapter	To enable the students to revise the topics and ask their doubts from the chapter
121		Class test	To enable the students to know how much they have learnt in the chapter and do the corrections of their mistakes
122	Ch-5 (The way the world looks)	Introduction of different views of a 3-D object	To enable the students to view the objects from front, top and side by giving examples from classroom objects
123		Maths lab activity/art integrated activity- Paper cutting activity for making nets	To enable students to make nets of different 3-D objects
124		Nets of 3-D objects	To enable the students to match the 3-D objects with their nets
125		Recapitulation of chapter	To enable the students to revise the topics and ask their doubts from the chapter
126	PT-4	Revision for PT-4	To enable the students to recall the previous topics
127	Final-term exams	Revision for final-term exams	To enable the students to revise the topics and ask their doubts from the chapters
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129		Revision for final-term exams	To enable the students to revise the topics and ask their doubts from the chapters

130		Revision for final-term exams	To enable the students to revise the topics and ask their doubts from the chapters
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