Espalier Heritage School

Annual Planner 2020-21

	Grade III											Subject: Maths

Sr No	Lesson Name	learning objectives/ Subtopic	Methodology	pedagogical methods	learning outcome	Teaching Aid	Teaching Place	Is the lesson worksheet ready	Reff.books with pg.no.	No.of lectures required	Class Activities /Diagrams / Map work	Activity Suggested ---Tr Name
1	Where to look from?	To identify different views of the objects.	Explanation, discussion, questioning, learning by doing method.	Step-1 Teacher shows different objects and explains the concept related to the views of the objects and introduce the topic.	Students will be able to:	Video	1) classroom	No	NCERT math magic textbook and workbook	10	1)Rangoli patterns activity	
		To identify the different types of patterns..		Step-2 Teacher explains the concept of patterns and conducts and activity.	1) Understand the concept of different views of different objects	Objects- Chair, desk, books, compass box, rangoli etc	2)Av room		Pg.no 1 to 12 textbook		2)Mask making activity	
				Step-3 Teacher explains the concept of mirror halves with the help of and activity.	2) Draw shapes and rangoli patterns.				Pg.no 1 to 6 workbook		3)Making mirror halves alphabet's and words	
				Step-4 Teacher explains the concept of symmetry and explains how 2-Dimensional pictures can represent 3-Dimensional objects as seen from different perspectives.	3) Understand the concept of mirror halves							
					4) Understand the concept of symmetry							
2	Fun with numbers	To read and write numbers upto 999 using place value.	Explanation, discussion, questioning, interaction.	Step-1 Teacher will write some numbers on board and asks students to come and write the numbers in words.	Students will be able to:	Video						
		To compare numbers upto 999 for their value based on their place value.		Step-2 Teacher will explain the concept of place value using place value kit..	1) Understand the concept of expanded form and standard form of numbers	Place value kit	1) Maths lab	No	NCERT math magic textbook and workbook.	12	1) Dot game	
		To solve simple daily life problems using addition and subtraction of numbers.		Step-3 Teacher will explain the concept of addition of numbers.	2) Understand the concept of ascending and descending order of numbers	Skipping rope	2) Classroom		pg.no13 to 28 textbook		2) Skip counting game	
				Step-4 Teacher explains the concept of skip counting using hundred number frame and conducts skip counting game.	3) Understand the concept of place and face value of numbers.				pg.no 7 to 14 workbook			
				Step-5 Teacher will explain the concept of ascending and descending order with examples.	4) Understand the concept of successor and precedessor.							
				Step-6 Teacher will explain the concept of predecessors and successors with examples.	5) Understand the concept of skip counting.							
					6) Understand the concept of number patterns.							
3	Give and Take	To solve addition sums by breaking the numbers.	Explanation, discussion, writing, reading, interaction, solving.	Step-1 Teacher will conduct an activity and introduce the topic.	Students will be able to:	place value kit.	Classroom	No	NCERT math magic textboook and workbook	12	1) Number card activity.	
		To solve sums of addition with carrying.		Step-2 Teacher will explain and solve sums on board.	1) Understand the concept of addition and subtraction				pg.no 29 to 45 textbook			
				Step-3 Teacher will conduct an activity.	2) Solve the sums mentally.				pg.no 15 to 23 workbook			
				Step-4 Teacher will explain the properties of addition.	3) Understand the properties of addition.							
				Step-5 Teacher will explain and solve sums of addition of 3-digit numbers.	4) Solve word problems.							
4	Long and Short	To encourage children to look around and see how lengths of different things are measured.	Explanation, discussion, writing, reading.	Step-1 Teacher shows different objects and asks various questions and introduce the topic.	Students will be able to:	rope,measuring tape,ruler.	Classroom	No	NCERT math magic textbook and workbook	10	1) Guess and check activity.	
		To make students learn the units of measuring lengths.		Step-2 Teacher will asks the students to measure the lengths of window, whiteboard,desk etc	1) Understand the concept of long and short objects.				pg.no 46 to 59 textbook			
				Step-3 Teacher will explain the concept of units of lengths.	2) Understand the concept of measurement.				pg.no 24 to 29 workbook			
				Step-4 Teacher will explain the concept of conversion of units of lengths.	3) Understand the concept of conversion of units of measurements.							
				Step-5 Teacher will explain and solve addition of lenghts sums on board	4) Measure the lengths of different objects using their own body parts.							
				Step-6 Teacher will conduct guess and check activity.								
5	Shapes and Designs	To identify and describe basic 2d shapes.	Explanation, discussion, interaction, writing, reading.	Step-1 Teacher will conduct a small role play related to 2d and 3d shapes and introduce the topic.	Students will be able to:	Shapes, 3d objects, tangram	Math lab	No	NCERT math magic textbook and workbook	10	1) Tangram activity	
		To identify and describe basic 3d shapes.		Step-2 Teacher will explain the concept of 2d and 3d shapes.	1) Understand the concept of 2d and 3d shapes.		Classroom		pg.no 60 to 75 textbook		2) Treasure hunt game.	
				Step-3 Teacher will explain the concept of faces,edges, corners of 3d shapes.	2) Understand the concept of edges, corners and faces.				pg.no 30 to 36 workbook		3) Make a clapper	

No	Topic	Objectives	Methodology	Teaching Steps	Learning Outcomes	TLM	Venue		Resources	Periods	Activities	
				Step-4 Teacher will conduct an tangram activity.	3) Understand the concept of patterns.						4) Make koala face	
				Step-5 Teacher will a treasure hunt game.	4) Understand the concept of designs, pattern series and tiling patterns.							
6	Fun with Give and Take	To frame problems for addition and subtraction.	Explanation, discussion, problem solving method.	Step-1 Teacher will tell the cricket commentry and introduce the topic.	Students will be able to:	Place value kit	Classroom	No	NCERT math magic textbook and workbook	12	1) Mental maths activity	
		To add or subtract numbers by writing them vertically and horizontally.		Step-2 Teacher will explain and solve the sums of subtraction with and without borrowing using place value kit.	1) Solve subtraction sums with and without borrowing.				pg.no 76 to 94 textbook		2) Forward and backward counting game	
				Step-3 Teacher will explain the concept of missing numbers with the help of examples.	2) Understand the concept of missing numbers.				pg.no 37 to 45 workbook			
				Step-4 Teacher will explain the concept of subtraction by counting forward using number line.	3) Understand the concept of forward and backward counting.							
				Step-5 Teacher will explain and solve word problem sums .	4) Solve word problems.							
7	Time goes on	To identify the hour and minute hands in the clock.	Explanation, discussion, reading, writing	Step-1 Teacher will conduct an activity and introduce the topic.	Students will be able to:	Calendar,clock, digital watch, video	Classroom	No	NCERT math magic textbook and workbook	10	1) Clap clap game	
		To compare and contrast the hour and minute hands.		Step-2 Teacher will explain the concept of hour hand and minute hand.	1) Understand the concept of time.				Pg.no 95 to 112 textbook		2) Birthdate activity	
				Step-3 Teacher explains the concept of a.m and p.m.	2) Understand the difference between seconds,minutes and hour.				pg.no 46 to 55 workbook		3) Clock activity	
				Step-4 Teacher explains the concept of days,months and year.	3) Understand the concept of months,days and weeks.							
				Step-5 Teacher asks the students to read the time.	4) Read and write the time.							
				Step-6 Teacher conducts an activity.								
				Step-7 Teacher will show the video.								
8	Who is heavier ?	To compare objects as heavier/ lighter.	Explanation, discussion, interaction, questioning, writing, reading.	Step-1 Teacher gives some heavy and light objects to the children and asks the difference between them and introduce the topic.	Students will be able to:	Weighing machine, weights,rice, dal,vegetables etc	Classroom, Math lab	No	NCERT math magic textbook and workbook	10	1) Guess the weight	
		To weigh objects using standard units.		Step-2 Teacher will explain the concept of weight and will show the weighing machine to the children.	1) Understand the difference between heavy and light objects.				pg.no 113 to 121 textbook		2) Make your own weighing scale	
		To add or subtract measures involving grams & kilograms.		Step-3 Teacher will explain the concept of conversion of units of weights.	2) Weigh the different objects.				pg.no 56 to 61 workbook			
				Step-4 Teacher will conduct an activity.	3) Understand the concept of conversion of weights.							
				Step-5 Teacher will show pictures and videos of different weighing machines.	4) Understand the concept of standard units of measuring weights.							
9	How many times?	To solve simple daily life problems or situations based on using multiplication.	Explanation, discussion, problem solving method, questioning.	Step-1 Teacher will narrate a small story and introduce the topic.	Students will be able to:	Cube, charts.	Classroom	No	NCERT math magic textbook and workbook	13	1) Plastic cube activity.	
		To construct and use the multiplication facts in daily life situations.		Step-2 Teacher will explain the concept of multiplication with the help of examples.	1) Understand the concept of multiplication.				pg.no 122 to 143 textbook			
		To develop multiplication facts by using repeated addition.		Step-3 Teacher will explain the properties of multiplication.	2) Understand the properties of multiplication.				pg.no 62 to 72 workbook			
				Step-4 Teacher will explain the concept of multiplication using number patterns and tables.	3) Solve sums of multiplication of 2 digit numbers.							
				Step-5 Teacher will conduct an activity.	4) Solve word problems.							
				Step-6 Teacher will explain and solve expansion method of multiplication of 2 digit and 3 digit numbers.								
10	Play with patterns	To draw pattern based designs.	Explanation, discussion, questioning, interaction.	Step-1 Teacher will show some patterns and asks various questions and introduce the topic.	Students will be able to:	Saree, handkerchief, pictures,video	Classroom, math lab	No	NCERT math magic textbook and workbook	10	1) Making bookmarks	
		To understand designs and repetition of patterns.		Step-2 Teacher will explain the concept of repetition of patterns.	1) Understand the concept of patterns.				pg.no 144 to 152 textbook		2) Musical patterns	
				Step-3 Teacher will show and explain different types of patterns.	2) Understand the concept of repetition of patterns.				pg.no 73 to 78 workbook			
				Step-4 Teacher will asks students to draw different patterns on board.	3) Draw different types of patterns.							
				Step-5 Teacher will conduct an activity.								
				Step-6 Teacher will explain number patterns, growing patterns, repeating patterns.								

11	Jugs and Mugs	To understand standard measuring units.	Explanation, discussion, interaction, questioning, problem solving.	Step-1 Teacher will present a number of vessels in front of the children and ask various questions and introduce the topic.	Students will be able to:	Bucket's, bottles,glass, water, measuring vessels, pots, jugs,mugs	Classroom, kuteer	No	NCERT math magic textbook and workbook	10	1) Arranging vessels	
		To measure and compare the capacity of containers used in daily life.		Step-2 Teacher will give different vessels to the children asks them to arrange the vessel in ascending order based on their capacity.	1) Understand the concept of capacity of different vessels.				pg.no 153 to 159 textbook		2) Measuring activity	
				Step-3 Teacher will show the vessels of measuring liquids.	2) Understand the concept of measuring liquids.				pg.no 79 to 82 workbook			
				Step-4 Teacher will explain the concept of standard units of measuring liquids.	3) Understand the concept of units of measuring liquids.							
				Step-5 Teacher will explain the concept of conversion of units of liquids into litres and millilitres.	4) Understand the concept of conversion of liquids into litres and milliliters.							
				Step-6 Teacher will explain and solve word problem sums on board.	5) Measure the quantity of liquids.							
				Step-7 Teacher will explain the concept of capacities of different vessels of holding liquids.								
12	Can we share	To determine that division is dividing objects into equal groups.	Explanation, discussion, questioning, problem solving method.	Step-1 Teacher will conduct an small activity and introduce the topic.	Students will be able to:	Division machine, pencils, crayons, Bangles, pistachio shells.	Classroom, math Lab	No	NCERT math magic textbook and workbook	12	1) Division machine activity	
		To define terms: dividend, divisor, quotient and remainder.		Step-2 Teacher will explain the concept of sharing equally.	1) Understand the concept of sharing equally.				pg.no 160 to 176 textbook		2) Sharing equally activity	
		To recognize that division is the opposite of multiplication.		Step-3 Teacher will explain the properties of division.	2) Understand the relation between division and subtraction.				pg.no 83 to 91 workbook		3) Spinner game	
				Step-4 Teacher will explain and solve sums on board.	3) Solve division sums.							
				Step-5 Teacher will conduct an division machine activity.	4) Understand the properties of division.							
				Step-6 Teacher will explain the relation between division and subtraction & division and multiplication.	5) Understand the concept of divisor, quotient and remainder.							
13	Smart chart	To define pictogram.	Explanation, discussion, questioning, interaction.	Step-1 Teacher will explain the concept of pictogram.	Students will be able to:	video,pictures, cards	Classroom	No	NCERT math magic textbook and workbook	8	1) Making pictogram	
		To read and interpret pictograms.		Step-2 Teacher will explain the concept of representing data using symbols and pictures.	1) Understand the concept of pictogram.				pg.no 177 to 189 textbook			
		To create a pictogram.		Step-3 Teacher will explain and solve examples of pictograms on board.	2) Understand the concept of data handling.				pg.no 92 to 94 workbook			
				Step-4 Teacher will explain how to read and create pictogram.	3) Represent data using pictures and symbols.							
				Step-5 Teacher will conduct an activity.	4) Create a pictogram.							
14	Rupees and Paise	To do day to day transaction of money.	Explanation, discussion, questioning, interaction, problem solving method.	Step-1 Teacher will conduct an small activity and introduce the topic.	Students will be able to:	Play money kit, coins and notes.	Classroom, math lab	No	NCERT math magic textbook and workbook	14	1) Play money activity	
		To do conversion of money		Step-2 Teacher will explain concept and importance of money in day to day life.	1) Understand the concept of money and the factors that determine its value.				pg.no 190 to 200 textbook			
		To understand the exchange value of coins/ notes.		Step-3 Teacher will explain the concept of notes and coins and exchange of money.	2) Understand the importance of money in day to day life.				pg.no 95 to 101 workbook			
				Step-4 Teacher will explain the concept of conversion of money.	3) Understand the concept of notes and coins.							
				Step-5 Teacher will conduct an activity.	4) Do the conversion of money.							
					5) Add or subtract money.							