

Espalier Heritage School												
Annual Planner 2020-21												
Grade IV	Subject: Maths							Created By: Nashra Kokni				
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	Building with bricks	To identify different floor ,wall and jaali patterns	Explanation, discussion, interaction	Step-1 Teacher will demonstrate 2d and 3d shapes and explain about the faces, edges and corners of the different shapes.	Students will be able explain the difference between 2D and 3D shapes like square & rectangle, cube & cuboid.	Pictures, video	Classroom	No	NCERT math magc textbook and workbook		10	Make a jaali pattern in a wall.
		To identify 2D and 3D objects		Step-2 Teacher will narrate the story of jagriti school and ask different questions related to the story.	Students will be able to understand different patterns of wall, floor, jaalies and jharokas.							Make a floor pattern in a circle.
				Step-3 Teacher will show the bricks and asks questions related to it (real life application)	Students will be able to identify different wall and brick patterns.							
				Step-4 Teacher will show different floor, wall and jaali patterns.	Students will be able to draw different floor,wall and jaali patterns.							
				Step-5 Teacher will explain the concept of arch and ask questions related to it.								
				Step- 6 Teacher will show the video and explain the process of brick making.								
2	Long and Short	To identify lengths of different objects.	Explanation, discussion, interaction	Step-1 Teacher will introduce the topic by showing the pictures of non standard units of length and explain the concept of length.	Students will be able to identify long and short objects.	Ruler, measuring tape, Tv, Pencil, Compass box, Table, Length of wall	Classroom	No	NCERT math magc textbook and workbook		10	To measure the length of window, door and white board.
		To identify long and short objects		Step-2 Teacher will explain the concept of standard unit by using measuring tape and ruler.	Students will be able to understand the concept of length and measurement. S							Finding and collecting data of shortest and longest student of the class with the help of scale in their school.
				Step-3 Teacher will explain the conversion of length - mm , cm ,m , km	Students will be able to do the conversion of lengths.							
				Step-4 Teacher will solve and explain the concept of addition and subtraction of lengths.	Students will be able to understand the standard units of length.							
				Step-5 Teacher will explain and solve word problems.								
3	A Trip to Bhopal	To make computations using the operations of addition and subtraction	Explanation, discussion, interaction	Step-1 Teacher will narrate a story and introduce the topic.	Students will understand the properties of addition, subtraction, multiplication, division.	pictures, tables chart	Classroom	No	NCERT math magc textbook and workbook		8	The students will be given different situations to add and subtract hours and minutes mentally and Self Dependency in Mathematical calculations will be developed.
				Step-2 Teacher will explain the concept of addition and subtraction and ask students to solve the sums.	Students will be able to explain and solve sums.							
				Step-3 Teacher will explain the concept of multiplication and division and students will solve the sums related to it.								
				Step-4 Teacher will explain the mental math sums and ask students to it by their own.								
4	Tick tick Tick	To identify the placement of numerals and hands of clock.	Explanation, discussion, interaction	Step-1 Teacher will ask various questions related to daily life and introduce the topic.	Students will be able to use clock to measure time	clock, flash cards , chart, analog watch , digital watch, calendar	Math lab, classroom	No	NCERT math magc textbook and workbook		8	Paper plate clock making activity
		To identify hour and minute hands of a clock		Step-2 Teacher will explain the story related to time and its importance.	Students will be able to understand the importance of time							
				Step-3 Teacher will explain the concept of hour and minute hand , second hand and concept of AM and PM	Students will be able to understand the concept of AM and PM							
				Step-4 Teacher will explain the concept of half past and quarter to	Students will be able to tell the time.							
				Step- 5 Teacher will show the calendar and ask various questions to it.	Students will be able to create a clock.							
5	The way the world looks	To identify and observe different views of the object	Explanation, discussion, interaction	Step-1 Teacher will show different objects and ask questions related to different views of the objects and introduce the topic.	Students will be able to understand the concept of different views of different objects.	map , objects , pictures	Classroom	No	NCERT math magc textbook and workbook		9	Read a map of your school or city and write precise directions to reach different places.
		To identify and locate the directions in the map.		Step-2 Teacher will ask the students to create the different views of a table, bucket, a cup , a boat etc.	Students will be able to visualize objects from different views							
				Step-3 Teacher will show the map and explain the concept of directions.	Students will be able to differentiate between virtuality and reality							

				Step-4 Teacher will explain and demonstrate the concept of manufacturing and expiry date of different food items and medicines.	Student will be able to understands the four directions and is able to locate the given area in the map.							
				Step-5 Teacher will show the map of railway station and ask various questions related to it .								
6	The Junk seller	To identify different notes and coins	Explanation, discussion, interaction	Step-1 Teacher will ask various questions related to daily life and introduce the topic.	Students will be able to understand the concept of money	play money kit, chart, weighing machine and weights.	Classroom	No	NCERT math magc textbook and workbook		10	Ask the students to go to nearby market and purchase a few things.At home they will check the price tags .They will prepare a bill and find how much money did he/she spend.
		To evaluate and create bill.		Step-2 Teacher will explain the concept and value of money and other transactions.	Students will be able to solve problems related to money transactions.							
				Step-3 Teacher will explain the concept of profit and loss and ask students to solve sums.	Students will be able to know value of different currency notes and coins.							
				Step-4 Teacher will ask the students to record the daily expenses and calculate and make the bill.	Student will be able to understand the concept of profit and loss.							
				Step- 5 Teacher will explain the concept of conversion of money and addition and subtraction of money.	Students will be able to create and calculate the bill.							
7	Jugs and Mugs	To estimate and compare the capacity of containers, used in daily life.	Explanation, discussion, interaction	Step-1 Teacher will narrate the story and conduct a role play.	Student will be able to understand the concept of capacity.	measuring vessels, bottle, cup , mug , bucket etc.	Math lab, kuteer and Classroom	No	NCERT math magc textbook and workbook		9	Measuring activity
		To identify standard unit of capacity.		Step-2 Teacher will explain the standard unit of capacity (litres and millilitres)	Students will be able to understand the Concept of volume of various vessels							
				Step-3 Teacher will explain the concept and comparison of volume of different vessels	Student will be able to measure the different capacities.							
				Step-4 Teacher will explain the concept of conversion and ask students to solve the sums.	Students will be able to use the standard units of measurement.							
				Step-5 Teacher will explain the addition and subtraction of capacity and solve word problems.								
8	Carts and Wheels	To identify circular objects.	Explanation, discussion, interaction	Step-1 Teacher will introduce the topic by showing circular objects.	Students will be able to draw 2d shapes.	bangles, rope, clay, geometry box, A4 colour sheets	Classroom	No	NCERT math magc textbook and workbook		8	Making a circle on the ground game.
		To identify geometrical instruments.		Step-2 Teacher will explain the concept of centre, radius, chord , diameter of a circle.	Students will be able to use geometrical instruments.							
				Step-3 Teacher will ask the students to measure the radius of the wheels of the bicycle and record it in the notebook.	Students will be able to understand the concept of radius, chord , diameter of the circle.							
				Step-4 Teacher will ask the students to draw a circle using a compass.	Students will be able to trace and guess circular objects.							
9	Halves and Quarters	To identify whole, half , one third, one fourth .	Explanation, discussion, interaction, questioning.	Step-1 Teacher will conduct a role play and introduce the topic.	Students will be able to understand the concept of equal sharing.	Paper plates , charts , flash cards , fraction kit	Classroom , math lab	No	NCERT math magc textbook and workbook		9	Making paper plate activity.
		To identify numerator and denominator.		Step- 2 Teacher will explain the concept of fraction and its type.	Students will be able to understand the concept of whole, half, one third and one fourth.							
				Step-3 Teacher will ask the students to shade the part of the given fraction.	Students will be able to shade the part of the given shape.							
				Step- 4 Teacher will explain the concept of numertaor and denominator and solve sums.	Students will be able to understand the concept of different types of fraction.							
				Step- 5 Teacher will explain the comparison of fraction.								
				Step- 6 Teacher will explain the concept of addition and subtraction of fraction.								
10	Play with patterns	To identify different types of patterns	Explanation, discussion, interaction, questioning.	Step- 1 Teacher will show different objects and ask various questions related to pattern.	Students will be able to understand the concept of patterns.	pattern kit , saree, number cards, pictures.	Classroom	No	NCERT math magc textbook and workbook		8	Making pattern activites.
		To identify geometrical patterns based on symmetry.		Step- 2 Teacher will explain the concept of pattern and its type.	Students will be able to draw different types of patterns.							
				Step-3 Teacher will ask the students to draw different types of pattern.	Students will be to observe the patterns division, addition and multiplication of numbers.							
				Step-4 Teacher will explain the concept of addition , multiplication and division of patterns.	Students will be able to realize the rule of creativity in a pattern.							
11	Tables and Shares	To recall table	Explanation, discussion, interaction, questioning.	Step-1 Teacher will ask dodging tables and introduce the topic.	Students will be able to understand the concept and properties of multiplication.		Classroom	No	NCERT math magc textbook and workbook		9	
		To identify properties of multiplication .		Step-2 Teacher will explain the concept	Students will be able to solve multiplication and division facts.							
					Students will be able to find the product by using expanded notation.							

					Students will be able to identify dividend, divisor, quotient and remainder.							
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