

Grade I

## **Espalier Heritage School**

## Annual Planner 2020-21

Subject: Maths

Sr No	Lesson Name	learning objectives/ Subtopic	Methodology	pedagogical methods	learning outcome	Teaching Aid	Teaching Place	Reff.books with pg.no.	No.of lecture s require d	Class Activities /Diagrams / Map work
1	Numbers upto 20	Learning Objectives- The children will be able to  1]Understand numbers up to 20( all concepts)  2]Concept of zero 3]How to make 20  4} Understand how to write number on abacus  5) Understand how to compare numbers	Oral work, discussion, explanation and written work.	Step 1 - Teacher will introduce the topic by testing their previous knowledge. Teacher will write the numbers on board and will ask the students to tell the number names.  Step 2- Teacher will intoduce the concept of zero by giving different examples  3- Teacher will introduce the topic by showing them how we can make bundle of ten pencils.  Step-4- Teacher will show them how to make group of ten by the help of judo kit.  Step-5- Teacher will intoduce the concept by showing them number chart.  Step-6- Teacher will intoduce the concept by giving examples on board.  Step-7- Teacher will ask three students to come forward and stand in a line. Teacher will explain them the concept.	Learning outcome- The children works with numbers 1 to 20 2) T he children can count objects using numbers from 1 to 20 3) The children compares numbers up to 20, for example tells whether number of girls or number of boys is more in the class.	1]Pencils 2] Judo kit 3] Number Chart 4] Different examples 5] Number line 6] Flash cards 7] Number cut outs	1) Maths lab. 2) classroom 3) staircase	Living Maths- pg no. 6 to 19	7	Activity 1- Teacher will make group of two students will ask one student to give his or her pencils to the partner, and will ask how many you have now?  Activity 2- Teacher will make group of five students and will ask them to make make ten with the help of judo kit. Activity 3-Number line activity.
2	Addition upto 10	Learning Objectives- The children will be able to 1)count objects, apply addition of numbers 1-10 in daily life 2)construct addition facts upto 10by using concrete objects. for example to find 3+3 counts 3 steps forword from 3 and conclude that 3+3=6.  3)solves day to day problems related to addition.up to 10	Oral work, discussion, explanation and written work.	Step 1 - Teacher will introduce the topic by explaning them what is addition.  Step 2- Teacher will introduce and expain the concept with the help of number line.  Brainstorming  Teacher will show them how we do addition with the help of chalk.  Explanation -  *Teacher will explain when we put together 2 or more numbers it is called addition. The sign for addition is + (plus).  *Teacher will expain when you add 0 to any number answer will be the same.  * Teacher will expain when you add 1 to any number answer will be the number that comes after.  Teacher will explain vertical addition and orders in addition.	Learning outcome- The children will 1] know how to add. 2)apply addition in day to day life	1] Chalk 2] Judo kit 3] Number line 4] Different examples	Maths lab, Classroom, Snake and ladder area.	Living maths pg no- 20 to 34	8	Activity 1- Teacher will ask the students to create word problems on their own( group of two)
3	Subtraction upto 10	Learning objectives - The children 1) subtracts numbers using 1 to 9 . For example the child takes out 3 objects from a collection of 9 objects and counts the remaining and concludes 9-3=6 2) solves day to day problems related to subtraction of numbers up to 10.	Oral work, discussion, explanation and written work.	Step 1 - Teacher will introduce the topic by explaning them what is subtraction.  Step 2- Teacher will introduce and expain the concept with the help of number line.  Brainstorming  Teacher will show them how we do subtraction with the help of chalk.	Learning outcome- The children will be able:	1] Chalk 2] Judo kit 3] Number line 4] Different examples	Maths lab , classroom	<b>Living Maths</b> - pg no- 35 to 48	7	Activity 1- Teacher will ask the students to create word problems on their own( group of two)

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	4	Shapes and patterns	Learning objectives - The learner 1) discribes the physical feature of various solids/shapes in their own language. For example - a ball rolls , a box slides.etc 2) observes extends and creates patterns of shapes and numbers . For example arrangement of shapes / objects/ numbers etc - 1,2,3,4,5,	Discussion, explanation and written work.	Step 1 - Teacher will introduce the lesson by checking their previous knowledge.  Step 2- Teacher will show the students objects for different shapes.  Teacher Questions: Teacher will ask the students following questions: 1. Do your moms make rangoli on any festival?  2. Does she make rangoli with any pattern or without pattern?  Demonstration- Teacher will show students set square.  * Teacher will show students book.  \$\text{students book}\$.  \$\text{students pakin and will explain them a square has 4 sides and 4 corners.  \$\text{students cd.}\$ *Teacher will show students a dice and matchbox.  * Teacher will show students a dice and matchbox.  \$\text{students bow}\$ *Teacher will show students a dice and matchbox.  \$\text{students cd.}\$ *Teacher will show students a dice and matchbox.  \$\text{students cd.}\$ *Teacher will show students a dice and a cone.   * Teacher will explain them a triangle has 3 sides and 3 corners.  \$\text{steplanation -}\$  * Teacher will explain them a square has 4 sides and 4 corners.  \$\text{Teacher will explain them a square has 4 sides and 4 corners.}  * Teacher will explain them a circle has no sides and no corners  * Teacher will explain what is cube and cuboid.  \$\text{Teacher will explain what is sphere, cylinder and cone.}  **	shapes. 2] To know the sides and corners of different shapes. 3] To know how to draw different shapes.	1] Set square 2] Book 3] Napkin 4] CD 5] Match box 6] Dice 7] Ball 8] Water bottle Etc	Classroom, Maths lab	Living Maths pg no - 49 to 58	5	Activity 1- Teacher will ask the students to observe the class and make a list of different shapes objects ( in group of two).
	5	Addition and Subtraction upto 20	Learning objectives - The learner 1) use different strategies to aggregation, counting forword ,using addition facts, etc to extend addition and subtraction up to 20.	Oral work, discussion, explanation and written work.	Step 1 - Teacher will introduce the topic by checking the previous knowledge of addition and subtraction  Step 2- Teacher will introduce and expain the concept with the help of number line.  Step 3- Teacher will show them how we do 2- digit addition and subtraction with the help of chalk.  Step 4- Teacher will show how to do backward counting to subtract.  Step 5- Teacher then help students to solve Granny's vegetable garden word problems based on addition and subtraction.	Learning outcome- The children will 1] know how to add and subtract 2- digit numbers .  2)Apply addition and subtraction in day to day life 3) They will be able to do backward counting .	1] Judo kit 2] Number Chart 3] Different example 4] Flash cards 5] Number cut outs 6) chalkboard	Classroom , Maths lab	<b>Living Maths</b> pg no - 59 to 68	5	Activity 1- Teacher will take the maths lab activity given in the TB on pg no- 71
		Numbers up to	Learning Objectives- The learner 1)count in groups of tens and ones for numbers	Oral work,	Step 1 - Teacher will introduce the lesson by checking their previous knowledge. Teacher will write the numbers on board and will ask the students to tell the number names.  Step 2- Teacher will explain the students how to make tens by using blocks.  Step -3 Students will try to make	children can make tens using blocks	1]Pencils 2] Judo kit 3] Number Chart 4] Different examples 5] Blocks 6] Flash	Maths lab ,	Living Maths	5	Activity 1- Teacher will make group of two students will ask one student to show all the bigger objects kept in front of him and the other one will show all the smaller objects.  Activity 2-
	6	50	more than 20 upto 50.For example 38 has 3 groups /bundles of tens each and 8 loose (ones)	discussion, explanation and written work.	tens using the blocks and also form different numbers using these blocks.  Step -4 Teacher will explain about compairing numbers. Comparison of numbers like - Which is the smallest number?, Which is the biggest number?, Write numbers from smallest to biggest or viseversa.	using numbers from 20 to 50 3) The children compares numbers up to 50, for example tells whether number is bigger or smaller.	cards 7] Number cut outs 8) Different objects with different sizes eg small and big.	classroom	pg no- 75 to 87	5	Teacher will make group of five students and will ask them to make make tens using blocks of different numbers with the help of judo kit.

7	Measurement	Learning objectives- The learner 1)finds short lengths in their immediate environment using non uniform units like finger, handspan,length of a forearm ,footsteps,etc.	Oral work, discussion, expanation, written work and demonstration.	Step 1 - Teacher will introduce the lesson by checking their previous knowledge. Step 2- Teacher will show the students how to measure by body parts.  Step-3- Teacher will show how to measure by scale.  Step-4- Teacher will show them biscuit packet and mineral water.  Teacher Questions: 1. Which is heavier?  2. Which is bigger?  3. Which is longer?  4. Which is smaller?  Demonstration- Teacher will demonstrate how to measure length using body parts for the following finger, handspan, cubit and pace.  * Teacher will demonstrate how to measure length by using scale. Teacher will also explain 1m=100cm. Explanation -  *Teacher will explain the following things: 1. Solid things are measured in kg or gram. 2. Liquid things are measured in litres or ml.	Learning outcome- The children will be able to:	1] Chalk and duster 2] Classroom 3] Scale 4] Biscuit packet 5] Mineral water	Classroom, Maths lab	<b>Living Maths</b> pg no - 90 to 98	6	Activity 1- Project on weight. Teacher will ask the students to find out the weight of following items: 1. Textbook 2. Toothpaste 3. chocolate 4. biscuit 5. mineral water and write that in notebook.
						2] Classroom 3] Scale 4] Biscuit packet 5] Mineral water				
8	Numbers upto 100	Learning Objectives- The learner 1)count in groups of tens and ones for numbers more than 50 upto 100.For example 73 has 7 groups /bundles of tens each and 3 loose (ones)	Oral work, discussion, explanation and written work	Step 1 - Teacher will introduce the lesson by checking their previous knowledge. Teacher will write the numbers on board and will ask the students to tell the number names.  Step 2 - Students will try to make tens using the blocks and also form different numbers using these blocks upto 100  Step -3 Teacher will explain about compairing numbers.  Comparison of numbers like - Which is the smallest number?, Which is the biggest number?, Write numbers from smallest to biggest or vise-versa.  Step -4 - Teacher will explain about number patterns .  Step -5 Students will try to solve the number patterns having skip counting like 515	Learning outcome- The children works with numbers till 100 2) The children can make tens using blocks using numbers from 50 to 100 3) The children compares numbers up to 100, for example tells whether number is bigger or smaller.  The children learn about the number patterns and skip counting	1]Pencils 2] Judo kit 3] Number Chart 4] Different examples 5] Blocks 6] Flash cards 7] Number cut outs 8) Different objects with different sizes eg small and big.	Gazebo ,Classroom , Maths lab	<b>Living Maths</b> pg no- 99 to 109	4	Activity 1- Teacher will make group of five students and will ask them to make make tens using blocks of different numbers with the help of judo kit.
9	Addition and Subtraction upto 100	Learning objectives - The learner 1) use different strategies to aggregation ,using addition facts, addition of single and double digit numbers , solving story sums etc to extend addition and subtraction up to 100	Oral work, discussion, expanation and written work.	Step 1 - Teacher will introduce the topic by checking the previous knowledge of addition and subtraction Step 2-Teacher will introduce and expain the concept with the help of number line. Step 3- Teacher will show them how we do 2- digit addition and subtraction with the help of chalk. Step 4- Teacher will also teach them addition of tens Step 5- Teacher then help students to solve story sums or word problems based on addition and subtraction.	Learning outcome- The children will 1] know how to add and subtract 2- digit numbers . 2)Apply addition and subtraction in day to day life 3) They will be able to do backward counting . 4) Thay will be able to solve word problems based on addition a nd subtraction.	1} Judo kit 2] Number Chart 3] Different example 4] Flash cards 5] Number cut outs 6) chalkboard	Train passage, Classroom , Maths lab.	Living Maths pg no- 114 to 122	4	Activity 1- Teacher will take the maths lab activity given in the TB on pg no-
10	Learn to multiply	Learning objectives- The learner 1) develps different strategies of multiplication by doing repeated addition.	Oral work, discussion, expanation, written work and demonstration	Step 1 - Teacher writes the problem on the board . Then asks students that how many groups we have? For example - student replies 3 groups of 5 pencils then teacher shows that the multiplication problem is written like 3x5 i.e equal to 15.  Step -2 Teacher tells students to go over the other activities and problems given in the book and students will complete all the problems with repeated addition.	Learning outcome- The children will be able: 1) Do repeated addition. 2) to know how to write the multiplication sign 3) to know how to multiply the numbers correctly.	1] Chalk 2] Judo kit 3] Number line 4] multiplication chart	Maths lab , classroom	Living Maths pg no- 128 to 130	5	Activity 1- Teacher will take the maths lab activity given in the TB on pg no-

11	Time	Learning objectives- The learner 1) identifies time in his day to day routine or life.	Oral work, discussion, expanation, written work and demonstration.	Step 1 - Teacher will introduce the lesson by showing them clock .Step 2- Teacher will show the students time table.  Step-3- Teacher will show the calender to the students Teacher Questions: 1. Do you have toys?  2. From where you brought the toys?  3. What you pay to the shopkeeper for getting that toys?  Demonstration- Teacher will show them clock, calender and time table Explanation -  *Teacher will explain if the minute hand points at 12 and hour hand points at 3, the time is 3 o'clock.  Teacher will explain Monday is the first day of the week and Sunday is the last day of the week.  * Teacher will explain there are 12 months in a year.  There are 365 days in a year.  * Teacher will explain what is leap year?	Learning outcome- The children will be able: 1]To read the time 2] To understand days of the week 3] To understand months of the year	1] Clock 2] Time Table 3] Calender	Classroom, Time zone of the school	Living Maths pg no- 137 to 144	6	Activity 1- Hand trick to count number of days in a month
						2] Time Table 3] Calender				
12	Money	Learning objectives- The learner 1) use concrete play money for making amounts upto Rs 20 2) will know how to count money.	Demonstration, Discussion, Explaination, writing work.	Step -1 Teacher gives introduction to money and ask students some questions- What is money ?, how do you get it ?, and what do you use it for? which Coins are currently in use in India? Which Notes are currently in use in our country? Step -2 Teacher explains about Simple addition with Money "Money comes in two forms: coins and paper money. Does anyone know which is which? What is the difference between the two?" Step -3 Teacher also helps students to solve story sums of the ice cream delight.	Learning outcome- The children will be able to understand: 1) coins 2) paper money 3) counting of money 4) money used in our country. 5) how money is demonstrated on the products.	1)Coins, 2)play money  3)Canned or preserved food, books, or other items to demonstrate bartering.	Gazebo, Classroom Maths lab.	Living Maths pg no- 145 to 149	6	Activity -1 Arranging a shop and getting practical knowledge of exchanging money with the shopkeeper.
13	Data Handling	Learning objectives- The learner 1) observe and collect information from the visuala, context/ situations such as number of items.	Discussion, explanation and written work.	Step 1 - Teacher will introduce the lesson by asking them questions. Step 2- Teacher will guide the students to solve the questions.  Teacher Questions: Teacher will ask the students following questions: 1. How many chart papers are there in our class? 2. How many pink colour chart papers are there?  3. How many yellow colour chart papers are there?  4. Total how many pink and yellow colour chart papers altogether? Explanation -  *Teacher will explain how to analyse the data.	<b>Learning outcome-</b> The children will be able to understand: 1]How to analyse the data	1] Chalk and duster	Maths lab , Classroom	Living Maths pg no-152 to 157	6	Activity - 1-Teacher will revise the by calling students to solve the sums on board.