

**GOOD WORD PUBLIC SCHOOL  
ANNUAL CURRICULUM 2020 – 2021**

**GRADE : IV**

**SUBJECT : MATHEMATICS**

<b>NO.OF BLOCKS</b>	<b>MONTH</b>	<b>LESSON NAME</b>	<b>LEARNING OBJECTIVES</b>	<b>ACTIVITY</b>	<b>ASSESSMENT</b>
1.	<b>JUNE</b>	Numbers 10,000 to 10,00,000	Students will understand that a 7-digit number represents 10,00,000s all the way to is and is called 10 lakhs (numbers 0 to 10,00,000)	Count currency notes to make ten thousands	Make your own abacus with cut the lid of an egg carton.
2.		Multiples	Students will understand that multiples of a number are the numbers that are made by multiplying by that number	Find the multiples using multiplication facts and tables. Play game	Make a hundreds chart Colour all the multiples of 1 to 10 using different colours Observe the pattern.
3.	<b>JULY</b>	Factors	Students will understand that factors of a number are the numbers that multiply to get that number	Draw the patterns for factors	Make a chart having numbers from 1 to 100 Find the factors of all numbers Observe the pattern and make a list of numbers which has only 2 factors –1 and the number itself.
4.		Adding 4 – digits and 4 -- digits	Students will understand that we can use the column method to add thousands, hundreds tens and ones.	Add 4 –digit numbers using column method. Solve problems	Take 10 counters each of 4 different colours – red,blue, green and yellow. Let red,blue,green and yellow colours stan for thousands, hundreds tens and ones respectively. Pick up a handful of counters and form 2 numbers using place value Add both the numbers.
5.		Subtracting 4 – digits from 4 digits	Students will understand that column method so that thousands hundreds, tens and ones are subtracted from each other	Solve subtraction problems of 4 – digits numbers using the column method.	Take 20 blank cards made out of thick paper. On 10 cards write 10 addition and subtraction story sums, write their numbers sentence in other 10 cards. Play a matching game with your friends and family.

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<b>AUGUST</b>	3 – D shapes as 2 – D shapes	Students will understand that 3 – d shapes can be represented ad 2- D shapes in different ways.	Look at 3 – D shapes and count the number of faces corners and edges	Make a net on a sheet of paper and put together to form a cube.
	Line segments, symmetry and shapes	Students will understand that points, lines, line segments, and rays are important elements that can be used to create shapes with specific properties.	Construct polygons by joining the line segments.	Construct a tangram using line segments. Cut out the pieces of the tangram.try placing the pieces together to form the tangram.
<b>SEPTEMBER</b>	Circles	Students will understand that a circle is made by drawing a curve that is the same distance away from a centre point all the way around.	Construct circles of given radii	Cut out a circle of radius 4cm from a thick chart paper. Divide the circle into 3 equal parts. Colour each part with different colour. Put a pencil through the centre of the circle .your spinning top is ready.
	Patterns	Students will understand that patterns show repetition and have a predictable sequence. We can use them to create designs, codes or solve math problems.	Put point on one side of the shape cut-outs and make patterns by rotating them.	Create a secret code. Ask any of your family members to decode the message. Give hints to help them decode the message.
	Multiplying using box model	Students will understand that we can expand 2 digit and 3 digit numbers to multiply using the box model.	Copy the sums and solve them in the notebooks using the box model.	Make a six page book. On each page, explain how to use each of the different methods to multiply two digit numbers. Write some practice questions on the last page. Make sure you use lots of examples.

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<b>OCTOBER</b>	Multiply using column method	Students will understand that we can use the column method to multiply two numbers.	Copy the questions in notebooks and find the product using the column.	Make multiplication story problems on 2-digit and 3- digit numbers and exchange with your friend. Solve the problems.
	Dividing by 1-digit	Students will understand that we can divide numbers having more than 2-digit using the long division.	Copy the question in notebooks and solve using the long division. Verify the answers.	Choose any ten 3-digit numbers and divide them all by 1-digit numbers. See and note the patterns.
<b>NOVEMBER</b>	Dividing by 2-digits	Students will understand that we can divide by 2-digit numbers using estimation and dividing the dividend into parts.	Copy the question in notebooks and solve using the long division. Verify the answers.	Write any five 2-digit numbers and any five 3-digit numbers. Divide each number by 10 and
	Operations with 4-digits	Students will understand that the procedures for the operations (add, sub, multi and divide) follow a familiar pattern with more digits.	Play BINGO to add and subtract 4-digit multiples of 100 mentally.	Make a list of places you (friends/relatives/temple/church/Mosque etc)Write their distances and find which is nearer and father and by how much?
	Length	Students will understand that we can draw a line segment to the nearest centimeter using a ruler or scale.	Solve addition, subtraction, multiplication and division problems.	Take an A4 size paper and measures its length and breadth. Find the perimeter of the paper.
	Perimeter	Students will understand that the perimeter of the shape is the measure of the distance around the shape.	Activity Measure the perimeter of rectangle and squares on square paper.	Check if the sum of the perimeters is different.

17.	DECEMBER	Introduction to Area	Students will understand that area measures the size of a surface units can be used to measure and compare areas.	Use the square paper to measure the area of various shapes.	Take square grid papers. Trace hands of your family members. Find who has the biggest ha
18.		Weight and capacity conversions	Students will understand that we can convert between the different units of measurement.	Look at the pictures and find the capacity.	Make a list of the items you at home. identify what we measures of them, capacity weight? Note their capacity convert them in ml or litre. their weight and convert the into kg or g.
19.	JANUARY	Fractions of collections	Students will understand that fractions shows part of wholes or sets and fractions of the same sized same whole or the set can be compared.	Make fractions strips for fractions with denominators 2,3,4,5,6,7,8,10.	Can student represent and c simple fractions using a num line.
20.		Comparing Fractions	Students will understand that equivalent fractions are the same size and that their numerators and denominators are multiples of each other.	Observe the equivalent fractions to find the mathematical relation.	Group project – 3 students i each group.
21.	FEBRUARY	Like fractions ,Adding and Subtracting	Students will understand that we can add and subtract numerator of fractions with the same denominator and when the numerator is greater than the denominator the fraction is greater than 1 (denominators 2,3,4,5)	Solve a story problem to show different ways to add eights to make 1 whole.	Cut out circles from a colour sheet or newspaper. Divide into 8 equal parts. Write san fraction problems on addition and subtraction. use these c to find the answers to the problems by putting them together.

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<b>22.</b>	<b>GRADE : IV</b>          <b>FEBRUARY</b>	Time on a clock	Students will understand that time can be measured to the minute and this helps us to schedule things happening in the day.	Draw hands on the clocks to show the given movie timings.	List the daily activities of your mother Make a timeline to show the activities on it in a 12 hour.
<b>23.</b>		Elapsed Time	Students will understand that we can use adding and subtracting to find when an event started, finished or its duration.	Read the time in minutes from a railway time table and convert them into hours.	Make the timetable and write the start time and end time of the time when you sit down to study. Find the elapsed time to know how much you study each day.  Ask your mother the amount of
<b>24.</b>	<b>MARCH</b>	Money	Students will understand that we can pay using adding, subtracting multiplying and dividing to calculate costs.	Find the different ways to make an amount.	money needed for the total household expences. Prepare the list of monthly expences in the house. Write how much money will be left after all the expences are made.
<b>25.</b>		Data Handling	Students will understand that different scales can be used to make bar and pictographs but this does not change the total amount shown or the shape of the graph.	Make a pictograph (scale = 2 and 5)	Cut out different types of graphs from a newspaper. Stick them in your notebook. Write the title, scale and lable of each axis for these graphs. Choose a graph which you liked best and write why you liked it.

