

Army Public School RK Puram

Holistic Personality Development (HPD) Integrated Into School Curriculum 2014

Sub: Mathematics

Class IV

S.No	Name of the Unit/Chapter	Activity	Personality Traits/Values
1	1.Large Numbers	1.Writing a 6/7 – digit number and its number name in a cheque leaf 2. Arranging different states of India in ascending/descending order based on the area of the states. 3. Prepare a headline for the given information by rounding the numbers to the nearest hundreds or thousands.	1. Knowledge 2. Reasoning and logical thinking
2	2. Addition	1. Frame your own word problems for the given sums. 2. Solving word /everyday problems involving addition. 3. Calculate the amount of money spent on your birthday for buying various items/things like cake, balloons, etc...	1. Innovative mind set 2. Problem solving 3. Reasoning and logical thinking
3	3. Subtraction	1. Frame your own word problems for the given sums. 2. Solving word /everyday problems involving both addition and subtraction. 3. Find out the number of toffees in a packet and the number of toffees left in the packet after it has been distributed in the class on your birthday.	1. Innovative mind set 2. Critical thinking 3. Curiosity 4. Problem solving
4.	4. Multiplication	1. Making a picture model to solve a problem.	1. Psycho motor skills

		<p>2. Solving day to day problems involving multiplication.</p> <p>3. Make a time table chart and find out the number of hours spent in studies for about a week and a month.</p>	<p>2. Reasoning and logical thinking</p> <p>3. Time intelligence</p>
5	5. Division and the Unitary method	<p>1. Applying the skill of division to solve every day problems.</p> <p>2. Use unitary method to find solutions to simple problems.</p> <p>3. Distribute the number of toffees equally to your 5 friends.</p>	<p>1. Problem solving</p> <p>2. Caring and sharing</p> <p>3. Honesty</p>
6	6. Factors and multiples	<p>1. The area of the rectangle is given. Learners are asked to make different rectangles with different length and breadth.</p> <p>2. Two baskets containing fruits are to be packed in different baskets containing equal number of fruits, Find the greatest number packed in each basket.</p> <p>3. A mason makes a platform with tiles of different length. Find the minimum length of platform without breaking them.</p>	<p>.problem solving</p> <p>.logical reasoning.</p> <p>. Critical Thinking</p> <p>.Innovative mindset</p>
7.	7. Geometry	<p>1. Learners will fold the paper, open it, identify the angles formed and mark the angles.</p> <p>2. Learners will take any picture (dancer) and identify the angles formed.</p> <p>3. Draw different polygons, identify which of these is a polygon.</p>	<p>. Innovative mind set</p> <p>.Sense of Symmetry</p> <p>.Critical Thinking</p> <p>. Creative Thinking.</p>
8.	8. Metric Measures	1. Comparison of height among students.	.reasoning

		2.Estimate the capacity of different sizes of bottles.	.Logical Thinking .Decision making .Critical Thinking
9.	9.Fractions	1.Take a rectangular piece of chartpaper.Divide it into 12 equal parts. Shade 1/3 of the rectangle. 2.Number strips are made which are used to compare the fractions. 3.Draw a circle,divide it into 8 equal parts. If there are 3 children,find out the fraction each one will get.	.Innovative mindset .Problem solving . Reasoning .Critical Thinking .Decision making
10.	10.Decimals	1.Cut out a strip of chart paper,divide it into 10 parts.Shade 3 parts of it.convert into decimals. 2.Make number strips of halves,thirds and fifths.Cut out individual halves,thirds and fifths Compare 2/5 and 1/3.	.Creative thinking .Problem Solving . Logical Thinking.
11.	11.Time	1.Time interval in hours and minutes a) The time taken for a train to reach from one station to another(Railway time table Bus timings) b) Total time spent in a day by the students actively to be calculated which involves addition of time. 2. The date of birth of different children is given to calculate their ages and arrange the names according the age in ascending order.	Global Outlook Time intelligence Critical Thinking Reasoning/Logical thinking Self Awareness
12.	12.Symmetry and Patterns	1. Making own secret codes and messages and using it. 2. Draw various rangoli patterns and find whether the design is symmetry by drawing axis of symmetry.	Confidence Innovative mind set Interest Confidence
13.	13. Perimeter and Area	1.To find the Perimeter a d area of Maths text book.	Problem solving

		<p>2. A Square of side 2cm has an area of 4sqcm. By how many times will its area increase if the sides are doubled?</p> <p>3. Calculate the length of a lace required to decorate the greeting card twice.</p>	<p>Reasoning Logical thinking Curiosity</p>
14.	14. Handling Data	<p>1 Collect the data. Draw a table and a pictograph of various mode of transports used by the children in the class to come to school.</p> <p>2. Draw a bar graph with information collected from the students. (Hobbies)</p>	<p>Team work Curiosity Interest Knowledge Cooperation</p>