

ARMY PUBLIC SCHOOL, R. K. PURAM

Holistic personality Development (HPD) integrated into School Curriculum 2014.

Class: IX

Subject: Mathematics

Serial No	Name of the Unit/Chapter	Activity	Personality Traits/Values
1	Quadrilaterals	Developed through individual activity based on paper cutting and pasting method <ul style="list-style-type: none"> ➤ Angle sum property of a quadrilateral ➤ Understanding the properties of parallelogram ➤ Mid-point of sides of a triangle (Paper cutting and pasting method) 	<ul style="list-style-type: none"> ✓ Curiosity ✓ Critical thinking ✓ Discipline ✓ Global outlook ✓ Self Awareness
2	Areas of parallelograms and Triangles	Developed by giving daily life related problems based on areas of distribution of land equally <ul style="list-style-type: none"> ❖ Parallelograms on the same base and between the same parallels are equal in areas.(Using the concept of congruency) ❖ Triangles on the same base (or equal base) and between the same parallels are equal in area. ❖ Use of ICT for explaining. 	<ul style="list-style-type: none"> ✓ Logical thinking ✓ Reasoning ✓ Discipline ✓ Global outlook ✓ Self Awareness ✓ Team Work ✓ Decision Making
3	Circles	Through paper folding and by using congruency <ul style="list-style-type: none"> ✚ Equal chords of a circle subtend equal angle at the centre. ✚ Perpendicular from the centre of a circle to a chord bisects the chord. ✚ Equal chords of a circle (or of congruent circles) are equidistant from the centre (or centres) ✚ By paper cutting and pasting method , the angle 	<ul style="list-style-type: none"> ✓ Curiosity ✓ Critical thinking ✓ Discipline ✓ Global outlook ✓ Confidence

		<p>subtended by an arc at the centre is double the angle subtended by it at any point on the remaining part of the circle.</p> <ul style="list-style-type: none"> ✚ To find the centre of the circle when radius is not given. ✚ Sum of either pair of opposite angles of a cyclic quadrilateral is 180°. 	
4	Constructions	<p>To develop the skill of drawing with accuracy which help in visualising many life situations (using the instruments of geometry-box)</p> <ul style="list-style-type: none"> ○ Construction of angles, angle bisector and perpendicular bisector of an line segment ○ Construction of triangle when the base , base angle and sum(or difference) of two sides are given ○ Use of ICT for demonstrating. 	<ul style="list-style-type: none"> ✓ Critical thinking ✓ Confidence ✓ Discipline ✓ Positive attitude ✓ Self Awareness
5	Surface Areas and Volumes	<p>Developed through giving examples from daily life situations (By paper cutting and pasting)</p> <ul style="list-style-type: none"> ● Total surface of the cuboid ● Surface area of a right circler cylinder ● Surface are a of a Sphere <p>(By measuring)</p> <ul style="list-style-type: none"> ❖ Volume of Cone ❖ Volume of Sphere <p>Use of ICT for explaining the situations.</p>	<ul style="list-style-type: none"> ✓ Global outlook ✓ Confidence ✓ Critical Thinking ✓ Logical thinking ✓ Problem solving
7	Statistics	<p>Solving problems based on daily life situation.</p> <ul style="list-style-type: none"> ● Presentation of Data in tabular form ● Graphical representation of a given data ● Group activity-Collecting the height of students of a 	<ul style="list-style-type: none"> ✓ Global outlook ✓ Logical thinking ✓ Leadership ✓ Confidence

		class and to represent the same in tabular form and pictorial presentation.	✓ Reasoning
8	Probability	<p>Inculcated through explaining the daily life problem about sure and uncertainty in an happening</p> <ul style="list-style-type: none"> • Conducting an experiment in identical conditions and to understand the concept of generalising. • Use of ICT for explaining the situations. 	<ul style="list-style-type: none"> ✓ Logical thinking ✓ Confidence ✓ Critical Thinking.