Class : 10th   Subject: Mathematics

CLASSES REQUIRED	18
TOPIC	Quadratic Equations
CONCEPT & SKILLS	Solution of a quadratic equation by: 1. Factorisation by splitting the middle term. 2. Factorisation by the method of completing the square. 3. Quadratic formula for solving quadratic based problems. 4. Finding nature of roots by using discriminant. **Skills:** 1. Algebraic skills. 2. Problem solving skills.
LEARNING OUTCOMES	1. To form a quadratic equation from a word statement. 2. To learn to find solution of a quadratic equation by above methods. 3.To explore nature of roots.
INSTRUCTIONAL TOOLS & REFERENCES	Text Book and Reference.
PEDAGOGY	Discussion, concept formation, Random questioning.
ACTIVITY / ASSIGNMENT / RESEARCH	Assignment related to the topic given to the children.
ASSESSMENT	Assessment done on the basis of assignment and Individual Activity and Group Activity.
SYLLABUS FOR FORMATIVE & SUMMATIVE ASSESSMENT	FA-3: Some Applications of Trigonometry, Quadratic Equations FA-4: Co-Ordinate Geometry, Arithmetic Progression. SA-2: Some Applications of Trigonometry, Quadratic Equations, Co-Ordinate Geometry. Arithmetic Progression, Circles, Areas related to circles,Constructions, Surface Area and Volumes and Probability

CLASSES REQUIRED	8
TOPIC	Some Applications of Trigonometry
CONCEPT & SKILLS	To find Height and Distances of objects. **Skills:** 1. Drawing skills. 2. Problem solving.
LEARNING OUTCOMES	1. To read and analyse word problem and to draw the corresponding figure. 2. To apply the concept of T-ratios in finding the height and distance of objects.
INSTRUCTIONAL TOOLS & REFERENCES	Text Book and Reference.
PEDAGOGY	Discussion, concept formation, Random questioning.
ACTIVITY / ASSIGNMENT / RESEARCH	Making of a clinometers to the angle of elevation and angle of depression and hence find the distance of height and depth of an object.
ASSESSMENT	Assessment done on the basis of assignment and Individual Activity and Group Activity.
SYLLABUS FOR FORMATIVE & SUMMATIVE ASSESSMENT	FA-3: Some Applications of Trigonometry, Quadratic Equations FA-4: Co-Ordinate Geometry, Arithmetic Progression. SA-2: Some Applications of Trigonometry, Quadratic Equations, Co-Ordinate Geometry. Arithmetic Progression, Circles, Areas related to circles,Constructions, Surface Area and Volumes and Probability