

Geometry

Marks Simple Workable Difficult

Lesson 01 Similarity

Ration of areas of two triangles				
Basic Proportionality theorem				
Converse of basic proportionality Theorem				
Tests of Similarity of triangles				
Property of an angle				
Bisector of a triangle				
The ration of the intercepts made on the transversals by three parallel lines				
Property of areas of similar triangles				

Lesson 02 Pythagoras Theorem

Pythagorean triplet				
Theorem of geometric mean				
Similarity & right angled triangles				
Pythagoras Theorem				
Application of Pythagoras Theorem				
Apollonius theorem				

Lesson 03 Circle

Circles passing through one, two, three points				
Secant & tangent				
Tangent & Converse theorem				
Tangent segment theorem				
Touching cycles & theorem				
congruence of arcs				
Property of sum of measures of arcs & converse				
Inscribed angle theorem				
Intercepted arc				
Corollaries of inscribed angle				
Theorem & Collollary of cyclic quadrilateral theorem & converse				
Theorem of angle between tangent & secant & Converse				
Theorem of internal division of chords				
Theorem of external division of chords				
Tangent secant segments theorem				

Lesson 04 Geometric Constructions

Construction of a triangle similar to the given tringle				
Construction of a tangent to a circle at a point on circle				
To construct tangents to a circle from a point outside the circle				

Lesson 05 Co-ordinate Geometry

Distance Formula				
Division of a line segment				
Section formula				
Co-ordinates of the mid point of a segment				
Centroid Formula				
Slope of a line				

Chart No.4-10th std Geometry (TMNP)

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Lesson 06 **Trigonometry**

Trigonometric ratios				
Trigonometric identities				
Application of Trigonometry				

Lesson 07 **Mensuration**

Frustum of Cone				
Sector of a circle				
Area of a sector				
Length of an arc				
Segment of a circle				
Area of a segment				

