Chart 01: 10th Std Subject Difficulty (TMNP)

Subject Difficulty Chart

No.	Subjects	9th Std	Total	Simple	Workable	Difficult
		Marks	Marks	75% above	60% Above	60% Below
1	Geometry					
2	Algebra					
3	Science 1					
4	Science 2					
5	English					
6	Marathi					
7	Hindi					
8	German /Sanskrit					
9	History					
10	Geography					

No.	Subjects	Marks	Total Chapters	Simple	Workable	Difficult
1	Geometry		7			
2	Algebra		6			
3	Science 1		10			
4	Science 2		10			
5	English					
6	Marathi		16			
7	Hindi		16			
8	German /Sanskrit					
9	History		9			
10	Geography		9			

Chart No. 02 10th Std Weekly Time Table (TMNP)

		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
Part	Timing								Rest
Early Morning	5.00 to 6.00								Study
	6.00 to 7.30								Free Time
Morning & Afternoon	8.00 to 11.00								Lunch
	11.00 to 1.00								Dinner
Afternoon	1.00 to 2.00								Walk/Exercise
	2.00 to 3.00								Optional Study
Late Afternoon	3.00 to 5.00								School
	5.00 to 7.00								Class
Evening	7.00 to 8.00								Home Work
	8.00 to 9.00								TV Time
Night	9.00 to 10.00								Mobile Time
	10.00 to 11.00								Home Help
	Hrs Study								
						Total Hrs Study / week			

Chart No. 3- 10th std Alebra (TMNP)

		Marks	Simple	Workable	Difficult
Lesson 01	**Linear equations in two variables**				
	Linear equations in two variables				
	Simultaneous liner equation				
	Graph				
	Graphical method				
	Determinant				
	Cramer's rule				
	Equations reducible to a pair of linear equations in two variables				
	Application if simultaneous equations				
Lesson 02	**Quadratic Equations**				
	Std form of quadratic equation				
	roots of quadratic equation				
	Solutions of quadratic by:				
	1. Factorization				
	2. Completing the square				
	3. Formula method				
	Nature of roots of a quadratic				
	Relation between roots of quadratic & coefficients				
	To obtain a quadratic having given roots				
	Application of quadratic equations				
Lesson 03	**Arithmetic Progression**				
	Sequence				
	Terms in a sequence				
	Arithmetic Progression (A.P.)				
	n'th term of an AP				
	Sum of first 'n' terms of A.P.				
	Application of A.P.				
Lesson 04	**Financial Planning**				
	Tax Invoice				
	GST Introduction				
	GST - Computation & ITC				
	Shares, Mutal Funds & SIP				
	Comparison of FV & MV				
	Rate of Return - ROR				
	Brokerage & Taxes on share trading				
	GST on Brokerage Services				
	Systematic Investment Plan				
Lesson 05	**Probability**				
	Random Experiment				
	Outcome				
	Equally likely outcomes				
	Sample Space				
	Events				
	Probability of an event				
Lesson 07	**Statistics**				
	Mean from classified frequency distribution				
	Direct Method				
	Assumed mean method				
	Step deviation method				
	Mode for grouped frequency distribution				
	Presentation of data				
	Histogram				
	Frequency polygon				
	Reading of Pie diagram				
	To draw a Pie Diagram				

Chart No. 3- 10th std Alebra (TMNP)

What is the difficult part?

Ch. No.	Definitions	Examples	Principles	Equations	Diagrams	Application	Formulae	Construction	Derivations	Numerical	Inference	Characteristics	Tables	Flow Chart	Processes	Utilizations	Types

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

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)

Geometry

		Marks	Simple	Workable	Difficult
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				

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

What is the difficult part?

Ch. No.	Definitions	Examples	Principles	Equations	Symbols	Diagrams	Application	Formulae	Construction	Derivations	Numerical	Characteristics	Tables	Charts	Flow Chart	Types

Chart No. 05- 10th Std Science 1 (TMNP)

Science 1

	Marks	Simple	Workable	Difficult
Lesson 01 **Gravitation**				
Gravitation				
Force & Motion				
Circular Motion & Centripetal force				
Kepler's Laws				
Newton's Universal Law of gravitation				
Earth's gravitational force				
Earth's gravitational acceleration				
Variation in Value of 'g'				
Mass & Weight				
Free Fall				
Gravitational Potential energy				
Escape Velocity				
Lesson 02 **Periodic Classification of Elements**				
Classification of elements				
Dobereiner's Triads				
Newland's law of Octaves				
Mendeleev's Periodic table				
Merits of Mendeleev's periodic table				
Demerits of Mendeleev's periodic table				
Modern periodic law				
Structure of modern periodic table				
Periods & electronic configuration				
Period trends				
Atomic size				
Metallic - Non Metallic Character				
Lesson 03 **Chemical Reactions and Equations**				
Chemical reactions and Equations				
Writing a chemical equation				
Balancing an equation				
Steps in balancing an equation				
Types: Combination reaction				
Decomposition reaction				
Displacement reaction				
Double displacement reaction				
Endothermic & Exothermic processes & reactions				
Factors affecting rate if chemical reactions				
Oxidation & Reduction				
Corrosion				
Rancidity				
Lesson 04 **Effects of Electric current**				
Energy transfer in an electric current				
Heating effect of electric current				

Chart No. 05- 10th Std Science 1 (TMNP)

Science 1

	Marks	Simple	Workable	Difficult
Magnetic effect of electric current				
Magnetic field produced by current through a circular loop				
Magnetic field due to current in a solenoid				
Fleming's left hand rule				
Electric motor				
Electromagnetic Induction				
Galvanometer				
Faraday's Law of Induction				
Fleming's right hand rule				
Alternating & Direct Current				
Electric Generator				
Lesson 05 **Heat**				
Latent heat				
Anomalous behavior of water				
Regelation				
Dew point & humidity				
Unit of heat				
Specific heat capacity				
Heat Exchange				
Measurement of Specific heat & Calorimeter				
Lesson 06 **Refraction of Light**				
Refraction of light				
Laws of refraction				
Refractive Index				
Twinkling of stars				
Dispersion of light				
Partial & Total internal reflection				
Lesson 07 **Lenses**				
Lenses				
Images formed by convex lenses				
Images formed by concave lenses				
Sign Convention				
Lenses Formula				
Magnification				
Power of lens				
Combination of Lenses				
Human eye and working				
Defects of vision				
Apparent size of an object				
Use of lenses				
Persistence of vision				
Lesson 08 **Metallurgy**				
Physical Properties of metals & non -metals				

Chart No. 05- 10th Std Science 1 (TMNP)

Science 1

	Marks	Simple	Workable	Difficult
Chemical properties of metals & reaction with them				
Reactivity series of metals				
Chemical properties of non-metals				
Ionic compounds				
Properties of ionic compounds				
Metallurgy & occurrence of metals				
Basic principles: 1. Concentration of ores				
2. Separation based in gravitation				
3. Magnetic separation				
4. Froth floation				
5. Leaching				
Extraction of metals				
Corrosion of metals				
Prevention of corrosion				
Lesson 09 **Carbon Compounds**				
Bonds in Carbon compounds				
Carbon: a versatile element				
Hydrocarbons: Saturated or unsaturated				
Functional groups in carbon compounds				
Homologous series				
Nomenclature series of Carbon compounds				
IUPAC system of nomenclature				
Chemical properties				
Ethanol & Ethanoic acid				
Chemical properties of Ethanol & Ethanoic acid and their reactions				
Macro Molecules and polymers				
Lesson 10 **Space Mission**				
Space Mission				
Artificial Satellites				
Need & importance of satellites				
orbits of artificial satellites				
High Earth orbits				
Medium Earth Orbits				
Low Earth Orbits				
Satellite Launch Vehicle				
Space Mission away from Earth				
India & Space technology				
Missions to other planets				
Moon & Mars Missions				
Space Debris & Its Management				

Chart No. 05- 10th Std Science 1 (TMNP)

What is the difficult part?

Subject / Ch. No.	Reaction	Definitions	Examples	Principles	Physical Properties	Chemical Properties	Biological Properties	Equations	Symbols	Diagrams	Application	Formulae	Construction	Derivations	Numerical	Inference

Chart No. 05- 10th Std Scier

What is the difficult par

Subject

Ch. No.	Scientists	Discoveries	Dates	Inventions	Characteristics	Origin	Geographical	Tables	Charts	Flow Chart	Processes	Utilizations	Types
							Locations						

Chart No. 06-10th Std Science 2 (TMNP)

Science 2

		Marks	Simple	Workable	Difficult
Lesson 01	**Heredity & Evolution**				
	Heredity & Hereditary Changes				
	Transcription, Translocation & Translation				
	Evolution				
	Evidences & Evolution				
	1. Morphological				
	2. Anatomical				
	3. Vestigial Organs				
	4. Paleontological				
	5. Connecting Links				
	6. Embryological				
	Darwin's theory of natural selection				
	Lamarckism				
	Speciation				
	Human Evolution				
Lesson 02	**Life processes in Living Organisms I**				
	Living organisms & Life Processes				
	Living Organisms & energy production				
	Energy production through Anaerobic respiration in Microorganisms				
	Energy from different food components				
	Cell Division: Meiosis				
	Mitosis				
Lesson 03	**Life Processes in Living Organisms II**				
	Asexual reproduction				
	Sexual production				
	Reproduction in Modern technology				
	Reproductive Health				
Lesson 04	**Environmental Management**				
	Ecosystem- e review				
	Relationship between Environment & Ecosystem				
	Environmental Conservation				
	Need of Environmental Conservation				
	Environmental Conservation & Biodiversity				
	Hotspots of Biodiversity				
	Classification of Threatened Species				
Lesson 05	**Towards Green Energy**				
	Energy & Its Use				
	Generation of Electrical Energy				
	Thermal Energy based electric power station				
	Power Plant on Nuclear Energy				
	Power generation plant based on energy of natural gas				
	Electric energy generation & environment				
	Hydroelectric energy				
	Electricity generation using wind energy				
	Electric energy generation using solar energy				

Chart No. 06-10th Std Science 2 (TMNP)

Science 2

		Marks	Simple	Workable	Difficult
	Solar Thermal Power Plant				
Lesson 06	**Introduction of Microbiology**				
	Applied Microbiology				
	Industrial Microbiology				
	Industrial Microbiology: Main Features				
	Products				
	Organic acids used in various commercial products & microbes useful for same				
Lesson 07	**Cell Biology & Bio-technology**				
	Cytology				
	Stem Cells				
	Biotechnology				
	Commercial applications of biotechnology				
	White revolution				
	Blue revolution				
	Fertilizers				
Lesson 08	**Social Health**				
	Social Health				
	Factors disturbing the social health				
	Communication Media & excessive use of Modern Technology				
	Stress Management				
Lesson 09	**Disaster Management**				
	Disasters				
	Effects of Disasters				
	nature & Scope of Disasters				
	Disaster Management				
	Structure of Disaster				
	Management Authority				
	First Aid & Emergency Action				
	Mock Drill				

Chart No. 06-10th Std Science 2 (TMNP)

What is the difficult part?

Subject

Ch. No.	Reaction	Definitions	Examples	Principles	Physical Properties	Chemical Properties	Biological Properties	Equations	Symbols	Diagrams	Application	Formulae	Construction	Derivations	Numerical	Inference

Chart No. 06-10th Std Science

What is the difficult par

Subject	Ch. No.	Scientists	Discoveries	Dates	Inventions	Characteristics	Origin	Geographical	Tables	Charts	Flow Chart	Processes	Utilizations	Types
								Locations						

Chart No. 07- Goal Setting

No	Subject	Total Marks	9th std Final Exam Marks	Goal Marks	1st Exam	2nd Exam	3rd Exam	1st Prelim	2nd Prelim	Self Test	3rd Prelim	Actual Marks
1	Geometry											
2	Algebra											
3	Science 1											
4	Science 2											
5	English											
6	Marathi											
7	Hindi											
8	German /Sanskrit											
9	History											
10	Geography											

Chart No. 08- 10th Std Memory Plan

		Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**	**Saturday**	**Sunday**
Part	Timing							
Morning	5.00 to 11.00	Difficult Subject	Difficult Subject	Difficult Subject	Difficult Subject	Workable Subject	Workable Subject	Simple Subject
Afternoon	12.00 to 4.00	Workable Subject	Workable Subject	Workable Subject	Workable Subject	Difficult Subject	Difficult Subject	Difficult Subject
Evening	5.00 to 8.00	Simple Subject	Simple Subject	Simple Subject	Workable Subject	Difficult Subject	Difficult Subject	Difficult Subject
Night	9.00 to 11.00	Workable Subject	Workable Subject	Workable Subject	Difficult Subject	Difficult Subject	Difficult Subject	Difficult Subject