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TS Polycet Syllabus

Mathematics

- Number System
- Real Numbers
- Polynomials
- Sets
- Progressions
- Algebra
- Linear Equations
- Quadratic Equations
- Coordinate Geometry
- Geometry
- Trigonometry
- Surface Areas & Volumes
- Probability
- Mensuration
- Mathematical Modeling
- Statistics

Physics

- Chemical Bonding
- Structure of Atom
- Heat
- Carbon & its Compounds
- Magnetic Effects of Electric Current

- Classification of Elements
- Acids, Bases & Salts
- Chemical Equations & Reactions
- Refraction of Light at Curved Surface
- Refraction of Light at Plane Surface
- Electricity
- Human Eye & Colourful World
- Reflection of Light
- Metallurgy

Chemistry

- The States of Matter
- Surface Chemistry
- Electrochemistry
- Redox Reactions
- Polymers
- Nuclear Chemistry
- Chemical and Ionic Equilibrium
- Phase equilibrium & Solutions
- Chemical Thermodynamics
- Chemical Kinetics
- Organic compounds with the functional group containing oxygen
- Reactions of Benzene and heterocyclic compounds
- Organic compounds with the functional group containing halogens
- Atomic Structure
- Chemistry in everyday life
- Urea and malonic ester
- Qualitative and quantitative analysis and purification of organic compounds

- Preparation, Properties, and Reactions of Alkanes, Alkenes, Alkynes
- Biomolecules – Carbohydrates, Protein, Vitamins, Nucleic Acid, Lipids, Hormones Reactions of α , β unsaturated carbonyl and acids
- Spectroscopy measurements including IR, UV, and NMR (proton and carbon 13)
- Environmental Chemistry, etc.

Biology

- Respiration,
- Excretion,
- Reproduction,
- Heredity,
- Natural resources,
- Our environment,
- Control and coordination,
- Coordination in life processes,
- Transportation,
- Nutrition.