



NATIONAL SCIENCE TALENT SEARCH EXAMINATION

S Y L L A B U S

Class - 1

Mathematics : Numbers upto 100, Addition, Subtraction, Multiplication as Repeated Addition, Lengths, Weight, Capacity, Time, Geometrical Shapes.

General Science : Living & Non-living Things, Plant life, Animal life, Human body, Good Habits, Air, Water & Weather.

Class - 2

Mathematics : Numbers, Addition, Subtraction, Multiplication, Division, Length, Weight, Capacity, Time, Shapes.

General Science : Living & Non-living things, Plant life, Animal life, Human body, Safety Rules, Air, Water & Weather, Rock and Minerals, Our universe.

Class - 3

Mathematics : Numbers, Addition, Subtraction, Multiplication, Division, Fractions, Length, Weight, Capacity, Shapes.

General Science : Plant life, Animals : Their food & Home, Birds : Beaks Claws & Nests of the Birds, Soil, Our Universe, Human Body, Safety & First Aid, Matter and Materials.

Critical Thinking : This section includes a combination of skills like conscious application in real life, Logical & Inductive Reasoning, Tactics & Strategies in decision making, higher order thinking.

Class - 4

Mathematics : Large Numbers, Addition and Subtraction, Multiplication and division, Fractions, Length, Weight, Capacity, Time, Geometry.

General Science : Plant life, Animal life, Food & Digestion, Health & Hygiene, Teeth & Microbes, Safety & First Aid, Our Clothes, Our Universe, Matter and Materials, Force Work and Energy.

Critical Thinking : This section includes a combination of skills like conscious application in real life, Logical & Inductive Reasoning, Tactics & Strategies in decision making, higher order thinking.

Class - 5

Mathematics : Large Numbers, Factors and Multiples, Fractions and Decimals, Measurement of Length, Weight, Capacity, Time, Temperature, Percentages, Geometry, Perimeter and Area.

General Science : Plant life, Animal life, Human body, Soil Rocks & Minerals, Air Water and Weather, Our Universe, Matter and Materials, Force Work and Energy.

Critical Thinking : This section includes a combination of skills like conscious application in real life, Logical & Inductive Reasoning, Tactics & Strategies in decision making, Higher order thinking.

Class - 6

Mathematics : Patterns in Mathematics, Lines and Angles, Number Play, Data Handling and Presentation, Prime Time, Perimeter and Area, Fractions, Playing with Constructions.

Physics : Exploring Magnets, Measurement of Length and Motion, Temperature and its Measurement.

Chemistry : Materials Around Us, A journey through States of Water.

Biology : The Wonderful World of Science, Diversity in the Living World, Mindful Eating : A Path to a Healthy Body, Living Creatures : Exploring Their Characteristics.

Critical Thinking : This section includes a combination of skills like conscious application in real life, Logical & Inductive Reasoning, Tactics & Strategies in decision making, higher order thinking.

Class - 7

Mathematics : Large Numbers Around Us, Arithmetic Expressions, A Peek Beyond the Point, Expressions using Letter-Numbers, Parallel and Intersecting Lines, Number Play, A Tale of Three Intersecting Lines, Working with Fractions, Geometric Twins, Operations with Integers.

Physics : Electricity : Circuits and their Components, Heat Transfer in Nature, Measurement of Time and Motion.

Chemistry : Exploring Substances : Acidic, Basic and Neutral, The World of Metals and Non-Metals.

Biology : The Ever-Evolving World of Science, Adolescence : A Stage of Growth and Change, Life Processes in Animals, Life Process in Plants.

Critical Thinking : This section includes a combination of skills like conscious application in real life, Logical & Inductive Reasoning, Tactics & Strategies in decision making, higher order thinking.

Class - 8

Mathematics : A Square and A Cube, Power Play, A Story of Numbers, Quadrilaterals, Number Play, We Distribute Yet Things Multiply, Proportional Reasoning - 1, Fractions in Disguise, The Baudhayana-Pythagoras Theorem, Proportional Reasoning - 2.

Physics : Electricity : Magnetic and Heating Effects, Exploring Forces, Light Mirrors and Lenses

Chemistry : Pressure, Winds, Storms and Cyclones, Particulate Nature of Matter, Nature of Matter : Elements, Compounds and Mixtures

Biology : Cell, The invisible living world, Health : The ultimate treasure, Conversation of plants and animals, Reproduction.

Critical Thinking : This section includes a combination of skills like conscious application in real life, Logical & Inductive Reasoning, Tactics & Strategies in decision making, higher order thinking.

Class - 9

Mathematics : Number systems, Polynomials, Co-ordinate Geometry, Linear Equations in Two Variables, Introduction to Euclid's Geometry, Lines and Angles, Triangles, Quadrilaterals, Circles, Heron's Formulae, Surface Area and Volume.

Physics : Motion, Force and Laws of Motion, Gravitation, Work and Energy.

Chemistry : Matter in Our Surroundings, Is Matter Around Us Pure, Atoms and Molecules.

Biology : Fundamental unit of life, Tissues, Improvement in Food Resources.

Critical Thinking : This section includes a combination of skills like conscious application in real life, Logical & Inductive Reasoning, Tactics & Strategies in decision making, higher order thinking.

Class - 10

Mathematics : Real Numbers, Polynomials, Pair of Linear Equations in Two Variables, Quadratic Equations, Arithmetic Progressions, Triangles, Co-ordinate Geometry, Introduction to Trigonometry, Some Applications of Trigonometry, Circles, Areas Related to Circles, Surface Areas and Volumes.

Physics : Light, Reflection & Refraction, The human eye and the Colourful World, Electricity.

Chemistry : Chemical Reactions & Equations, Acids Bases and Salts, Metals & non-metals.

Biology : Life processes, Control & Co-ordination, Reproduction, Our Environment, Heredity.

Critical Thinking : This section includes a combination of skills like conscious application in real life, Logical & Inductive Reasoning, Tactics & Strategies in decision making, higher order thinking.