

ACST - 2020 SYLLABUS

Class-5th

Physics: Our Universe, Simple Machines, Force, Work, Energy, Light, Measurement, Motion.

Chemistry: Matter and its states, Natural Resources, Separation Techniques, Water and Air.

Biology: Animal & Plant life, Human Body and Health, The Ecosystem, Food and Nutrition.

Maths: Measurement, Multiplication and Division, Basic Geometrical Ideas, Integers, Fractions, Decimals, Area and its Boundary.

Mental Ability: Visual Reasoning (Paper Folding / Cutting, Series Completion), Deductions-Syllogisms, Series Completion (Letters and Numbers), Direction/Distance Problems, Venn Diagrams, Verbal Classification-Odd Man Out, Coding-Decoding Blood Relationships.

Class-6th

Physics: Force & Energy, Earth & Universe, Light, Shadows & Reflections, Motion and Measurement of Distances.

Chemistry: Matter and its states, Changes around us, Sorting materials into Groups, Separation of Substances, Fiber to Fabric, Water and Air.

Biology: Animal & Plant life, Human Body and Health, The Ecosystem, Food and Nutrition.

Maths: Knowing our number, Whole number, Algebra, Measurement, Multiplication and Division, Basic Geometrical Ideas, Integers, Fractions, Decimals, Area and its Boundary.

Mental Ability: Visual Reasoning (Paper Folding / Cutting, Series Completion), Deductions-Syllogisms, Series Completion (Letters and Numbers), Direction/Distance Problems, Venn Diagrams, Verbal Classification-Odd Man Out, Coding-Decoding Blood Relationships.

Class-7th

Physics: Motion and Measurement of Distance and Time, Light, Shadows & Reflections, Fun with Magnets, Force and Energy Electric Circuits, Electric Current and its effects, Heat.

Chemistry: Basic concepts of Chemistry, Water and Air, Physical and chemical changes, Animal Fiber, Acids, Bases and Salts.

Biology: Garbage in Garbage out, Getting to know about Plants, Body Movements, The Living Organisms and their Surroundings, Nutrition in Plants & Animals, Weather, Climate and Adaptation of Animals to Climate.

Maths: Integers, Fractions & Decimals, Perimeter and Area Simple Equations, Lines and Angles, Rational Numbers, Algebraic Expressions, Exponents and Powers, Profit and Loss, Percentage. Ratio and proportion, Data Handling

Mental Ability: Visual Reasoning (Paper Folding / Cutting, Series Completion), Deductions-Syllogisms, Series Completion (Letter and Numbers), Direction/Distance Problems, Venn Diagrams, Verbal Classification-Odd man out, Coding-Decoding Blood Relationships.

Class-8th

Physics: Chemical effect of Electricity, Force and Pressure, Sound, some natural phenomena, Light and Reflection, Friction.

Chemistry: Acids-Bases-Salts, Metals-Non metals, Synthetic Fibers-Plastics, Language of Chemistry, Water and Air, Changes around Us, Combustion Fuel-Flame.

Biology: Nutrition and Transportation in Plants and Animals, Respiration in

Organisms, Forests - Our Life Line, Crop Production and Management, Cell Structure & Functions, Micro-Organisms.

Maths: Ratio & Proportion and Application of Percentage, Perimeter and Area, Algebraic Expression, Rational Numbers Linear Equations in One Variable, Understanding Quadrilaterals Squares and Square Roots, Cubes and Cube Roots, Exponents and Power, Data Handling, direction and indirect variation.

Mental Ability: Visual Reasoning (Paper Folding / Cutting, Series Completion), Deductions-Syllogisms, Series Completion (Letters and Numbers), Direction/Distance Problems, Venn Diagrams, Verbal Classification-Odd Man Out, Coding-Decoding Blood Relationships.

Class-9th

Physics: Units and Measurements, Motion, Force and Newton's Laws of Motion, Gravitation, Pressure and Floatation, Work Power & Energy. Earth and Universe, Friction, Light.

Chemistry: Structure of Atom, Basics of Chemistry, Metals and Non-metals, Atoms and Molecules, Combustion and Flame Matter in Our Surroundings, Matter Around Us Pure.

Biology: Crop Production and Management, Micro-Organism: Friend and Foe, Conservation of Plants and Animals, Reproduction and Reaching the Age of Adolescence, Cell Structure & Function, Tissue,

Maths: Linear Equations in One Variable, Understanding Quadrilaterals, Circle, Squares and Square Roots, Algebraic Expressions and Identities, Mensuration, Exponents and Powers, Factorization, Number system, Polynomial, Euclid's Geometry, Lines, Angles and Triangles, Ratio & Proportion and Application of Percentage, Data handling.

Mental Ability: Visual Reasoning (Paper Folding / Cutting, Series Completion), Deductions-Syllogisms, Series Completion (Letter and Numbers), Direction/Distance Problems, Venn Diagrams, Verbal Classification-Odd man out, Coding - Decoding Blood Relationships, Calendar Problems, Data Sufficiency, Statement/Conclusions, Data Interpretation, Verbal Reasoning

Class-10th

Physics: Newton's Laws of Motion, Work, Energy and Power, Gravitation, Motion, Refraction of light, Reflection of Light Electricity, Magnetic effect of Electricity.

Chemistry: Atoms and Molecules, Atomic Structure, Chemical Reaction and Equation, Acids, Bases and Salts, Metals and Non-metals, Mole Concept, Periodic Classification

Biology: The cell, Tissue, Why do we fall ill?, Natural Resources, Diversity in Living Organisms, Life processes, Control & Coordination.

Maths: Number System, Polynomial, Linear Equations in Two Variables, Introduction Euclid's Geometry, Lines, Angles, Triangles-Congruency & Similarity of Triangles and Quadrilaterals Areas of Parallelograms and Triangles, Circles, Heron's Formula Surface Area and Volumes, Probability, Introduction to Trigonometry, Quadratic Equation, Statistics, Coordinate Geometry, Arithmetic Progression

Mental Ability: Visual Reasoning (Paper Folding / Cutting, Series Completion), Deductions-Syllogisms, Series Completion (Letter and Numbers), Direction/Distance Problems, Venn Diagrams, Verbal Classification-Odd man out, Coding - Decoding Blood Relationships, Calendar Problems, Data Sufficiency, Statement/Conclusions, Data Interpretation, Verbal Reasoning.

We promote these values in every bit of the Ashram's experience