ANNUAL SYLLABUS BREAK UP

SESSION: 2020-2021

CLASS: IX

Dear Parents

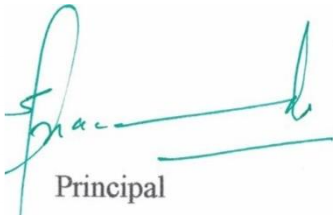
Welcome to the new academic session 2020-21 !

The commencement of a new session fills us with unbridled enthusiasm, towards each action, moving towards unprecedented achievement. Every new day glows with glorious sunshine touching every action, rendering it golden. Each year gives us another opportunity to begin afresh, consolidating our learnings of the previous year, making fresh resolutions aimed at assimilating learning into our lives. Achievement is accentuated with satisfaction if goals are set and accomplished in an organized manner. The unstinting support of parents for their wards invokes eternal gratitude which aids us on our academic path together.

We begin by marking our destination, chalking out our milestones and planning each step taken towards reaching our destination. The plan is carefully aligned to the objective as are the syllabus cycles. These syllabus cycles:

1. Are thoughtfully framed to distribute the syllabus into 10-day periods to enable smooth and uniform learning, throughout the academic year.
2. Break up the syllabus into smaller, more manageable parts.
3. Facilitate students in framing their own plans aligned to these cycles.
4. Divide long term goals into short term ones which can be reached easily, encouraging continuous effort. Disciplined completion of short-term goals provides ample time for revision thereby reducing stress and leading to better performance in tests than last minute preparations.

Enhanced academic performance perpetuates a feeling of self-worth, inculcates the values of patience and persistence, placing the responsibility of achievement on the student. These values are necessary for success in all walks of life. Invigorating actions are performed when touched by these values nurtured during school life, carving a path of small successes culminating in the joy of accomplishing the greater goal, the destination. You will find attached herewith, the syllabus cycles for the session 2020-21 as per the latest revised curriculum. Wish you all the best for a session full of comprehensive learning!



Subject: English Term 1		
Cycle 1	10 days	L-1 : The Fun They Had, P-1 : The Road Not Taken Grammar : Gap Filling - Prepositions, Articles, Conjunctions and Tenses Workbook : Unit 1 Assignment - I
Cycle 2	10 days	L-2 : The Sound Of Music S- 1: The Lost Child Writing Skill: Diary Entry Workbook : Unit 2 Grammar : Editing Class test Assignment - II
Cycle 3	10 days	L-3 : The Little Girl P-2 : Wind Writing Skills: Letter to the Editor Workbook: Unit 3 Grammar : Reported Speech- Commands & Requests, Statements, Questions Assignment - III
Cycle 4	10 days	S-2 : The Adventures of Toto P-3 : Rain On The Roof Writing skill : Story Writing Grammar : Omission Class test Assignment - IV ASL Practice listening test
Cycle 5	10 days	L-4 : A Truly Beautiful Mind ASL : Term I Writing Skills: Descriptive Writing (Place, Person) Workbook: Unit 4 Assignment - V
Cycle 6	10 days	L-5 : Snake and the Mirror S-3 : Iswaran the Storyteller Writing Skills : Informal letter Workbook : Unit 5 Grammar : Use of Passive Voice

		Class test Assignment - VI
Cycle 7	10 days	L-6 : My Childhood P-4 : The Lake Isle Of Innisfree S-4 : In the Kingdom of Fools Workbook : Unit 6 Grammar : Cloze Passage Assignment - VII
Cycle 8	10 days	P-5 : A Legend Of The Northland S-5 : The Happy Prince Writing Skills: Descriptive Writing (Event- Report) Grammar : Clauses -Noun, Adverb of condition and Time, Relative Class Test Assignment - VIII
Cycle 9	10 days	**Revision**
Half Yearly Examination		
Term 2		
Cycle 10	10 days	L-7 : Packing P-6 : No Men Are Foreign Writing Skill : Speech Writing Workbook : Unit 7 Grammar : Dialogue writing Assignment - IX
Cycle 11	10 days	L-8 : Reach for the Top P-7 : The Duck and the Kangaroo Workbook : Unit 8 ASL : Term 2 Assignment - X Class test
Cycle 12	9 days	L-9 : The Bond of Love S-6 : Weathering the Storm in Ersama Writing Skill : Debate Writing Workbook : Unit 9 Grammar : Subject-Verb Concord Assignment - XI

Cycle 13	11 days	L-10 : Kathmandu P-8 : On Killing a tree S-7 : The Last Leaf Writing Skill: Article Writing Workbook: Unit 10 Assignment - XII Class test
Cycle 14	12 days	P-9 : The Snake Trying S-8 : A house is not a home Grammar: Reporting a dialogue Writing Skill: Descriptive writing Assignment - XIII
Cycle 15	11 days	L-11 : If I were you S-9 : The Accidental tourist Writing skill - Email Workbook : Unit 11 Grammar : Modals Assignment - XIV Class test
Cycle 16	11 days	P-10 : A Slumber Did my Spirit Seal S-10: The Beggar Writing Skill: Story writing –based on cues Grammar : Determiners Assignment - XV
Cycle 17	5 days	**Revision**
ANNUAL EXAMINATION		

Subject: SOCIAL SCIENCE
Term 1

Cycle 1	10 days	**L-1 (H)** **1. The French Revolution** • French Society During the Late Eighteenth Century • The Outbreak of the Revolution

		• France Abolishes Monarchy and Becomes a Republic
Cycle 2	10 days	**L-1 (H)** **1. The French Revolution** • Did Women have a Revolution? • The Abolition of Slavery • The Revolution and Everyday Life **Map Work - Locate and Label the main places related to French revolution- Bordeaux, Nantes, Paris, Marseilles.** **L-2 (C)** **2. What is Democracy? Why Democracy?** • What is Democracy? • Features of Democracy • Why Democracy? • Broader Meaning of Democracy
Cycle 3	10 days	**L-1 (G)** **3. India-Size and Location** • Size and Location • India and the World • India's Neighbors **Map Work - Locate and Label on the political map of India all the States and their Capital** **L-2 (G)** **4. Physical Features of India** • Major physiographic units in India.
Cycle 4	10 days	**L-2 (G)** **4. Physical Features of India** • Major physiographic units in India. **Map work- Label all the Physiographic division on the physical map of India.** **L-3 (H)** **5. Nazism and the Rise of Hitler** • Birth of the Weimar Republic • Hitler's Rise to Power
Cycle 5	10 days	**L-3 (H)**

		5. Nazism and the Rise of Hitler • The Nazi Worldview • Youth in Nazi Germany • Ordinary People and the Crimes Against Humanity **Map Work - Locate and Label on the outline map of world the Allied and Axis Powers during II World War and Territories under German expansion.**
Cycle 6	10 days	**L-1 (E)** **6. The story of village Palampur** • Overview • Organization of production • Farming in Palampur • Non-farm activities of Palampur
Cycle 7	10 days	**L-3 (C)** **7. Constitutional Design** • Democratic Constitution in South Africa • Why do we need a Constitution? • Making of the Indian Constitution • Guiding Values of the Indian Constitution **L-3(G)** **8. Drainage** • Major rivers and tributaries • Lakes
Cycle 8	10 days	**L-3 (G)** **8. Drainage** • Role of rivers in the economy • Pollution of rivers **Map Work- Label all the main rivers of India.** **L- 2(E)** **9. People as Resource** • Overview • Economic activities by men and women • Quality of Population • Unemployment
Cycle 9	10 days	**Revision**
Half Yearly Examination		

Term 2		
Cycle 10	10 days	**L-5(H)** **1. Pastoralists in the Modern World** • Pastoral Nomads and their Movements • Colonial Rule and Pastoral Life • Pastoralism in Africa **Map Work - Label the main pastoralist community of India and Africa.** **L-3(E)** **2. Poverty as a Challenge facing India** • Two typical cases of poverty • Poverty as seen by Social Scientists • Poverty Estimates • Vulnerable Groups • Interstate disparities
Cycle 11	10 days	**L-3(E)** **2. Poverty as a Challenge facing India** • Global Poverty Scenario • Causes of Poverty • Anti-poverty measures • The Challenges Ahead **L-4(C)** **3.Electoral Politics** • Why Elections? • What is our System of Elections? • What makes elections in India democratic?
Cycle 12	09 days	**L-4(G)** **4.Climate** • Concept Climatic Controls • Factors influencing India's climate • The Indian Monsoon • Distribution of Rainfall • Monsoon as a unifying bond **Map Work - Label the main meteorological station of India.**

Cycle 13	11 days	**L-2 (H)** **5. Socialism in Europe and the Russian Revolution** • The Age of Social Change • The Russian Revolution • The February Revolution in Petrograd • What Changed after October? • The Global Influence of the Russian Revolution and the USSR **Map Work - Locate and Label on the outline map of world the Allied and Central Powers during I World War.**
Cycle 14	12 days	**L-5(C)** **6. Working of Institutions** • How is the major policy decision taken? • Parliament • Political Executive • Judiciary **L-5(G)** **7. Natural Vegetations and Wild Life** • Factors affecting Vegetation • Vegetation types **Map Work - Label the main National Park and Wild life sanctuary.**
Cycle 15	11 days	**L-5(G)** **7. Natural Vegetations and Wild Life** • Wild Life • Conservation **Map Work - Label the main National Park and Wild life sanctuary.** **L-6 (C)** **8. Democratic Rights** • Life without rights • Rights in a Democracy • Rights in the Indian Constitution • Expanding the scope of rights

Cycle 16	11 days	**L-4(E) - 9. Food Security** • Overview • What is Food Security? • Why Food Security? • Who is food insecure? • Food Security in India • What is Buffer Stock? • What is the Public Distribution System? • Current Status of Public Distribution System **L- 6(G) -10. Population** • Size • Distribution • Population Growth and Process of Population Change **Map Work - Label the states according to population growth of India.**
Cycle 17	5 days	**Revision**
ANNUAL EXAMINATION		

Subject : SCIENCE **Term 1**		
Cycle 1	10 days	**PHYSICS** **Ch12: Sound** 12.1 Production of Sound 12.2 Propagation of Sound 12.2.1 Sound Needs A Medium To Travel, 12.2.2 Sound Waves Are Longitudinal Waves 12.2.3 Characteristics Of A Sound Wave 12.2.4 Speed Of Sound In Different Media, Sonic Boom BBQ and TB questions **CHEMISTRY** **Ch 1: Matter in our surroundings** 1.1 Physical nature of matter

		1.1.1 Matter is made up of particles 1.1.2 How small are these particles of matter 1.2 Characteristics of particles of matter 1.2.1 Particles of matter have space between them 1.2.2 Particles of matter are continuously moving 1.2.3 Particles of matter attract each other Properties of three states of matter with respect to shape, volume, nature, compressibility, intermolecular force, intermolecular space, diffusion, density etc. 1.3 States of matter 1.3.1 The solid state 1.3.2 The liquid state 1.3.3 The gaseous state **Practical**: To identify common lab apparatus **BIOLOGY:** **Ch 15: Improvement in food resource** 15.1 Improvement in Crop Yields 15.1.1Crop variety improvement 15.1.2 Crop production management: i) Nutrient management ii) Irrigation facilities
Cycle 2	10 days	**PHYSICS** **Ch 12 : Sound** 12.3 Reflection Of Sound 12.3.1 Echo 12.3.2 Reverberation, 12.3.3 Uses Of Multiple Reflection Of Sound, **Practical** Verification of the Laws of reflection of sound. Determination of the speed of a pulse propagated through a stretched string / slinky. **CHEMISTRY** **Ch 1: Matter in our surroundings;** 1.4 Can matter change its state 1.4.1 Effect of temperature on kinetic energy of particles Interconversion of states of matter with the names of the processes involved Scales of measuring temperature (Celsius, Fahrenheit, Kelvin), Conversion of three scales

		of measuring temperature, Latent heat of fusion; Latent heat of vapourization 1.4.2 Effect of change of pressure Factors responsible for liquefying gases 1.5 Evaporation 1.5.1 Factors affecting evaporation 1.5.2 How does evaporation cause cooling Presence of water vapour in the atmosphere **BIOLOGY:** **Ch 15: Improvement in food resource** 15.1.2 (iii) cropping patterns 15.1.3 Crop protection management 15.2 Animal husbandry 15.2.1 Cattle farming
Cycle 3	10 days	**PHYSICS** **Ch 12 : Sound** 12.4 Range of Hearing, 12.5 Applications of Ultrasound 12.5.1 SONAR, 12.6 Structure of Human Ear Assignment and Exercise Questions **CHEMISTRY** **Ch: 1 Matter in Our Surroundings** **Practical**: To determine the melting point of ice and boiling point of water **Ch 2: Is Matter Around Us Pure** 2.1 What is a mixture Matter can be pure or mixture How to identify a pure substance from a mixture 2.5 What are the types of pure substances 2.5.1 Element 2.5.2 Compound Discuss the activity: Mixture of iron and sulphur and compound of iron and sulphur; **BIOLOGY** **Ch 15: Improvement in food resource** 15.2.2 Poultry farming 15.2.3 Fish production (i) Marine fisheries (ii) Inland fisheries 15.2.4 Beekeeping

Cycle 4	10days	**PHYSICS** **Ch 8 : Motion** 8.1 Describing Motion, Introduction, Examples a) Motion along a straight line Distance and displacement b) Uniform motion and non-uniform motion 8.2 Measuring the Rate of Motion a) Speed with direction 8.3 Rate of change of velocity, Related TB numericals, BBQ and TB questions **CHEMISTRY** **Ch 2: Is Matter Around Us Pure** 2.4 Physical change and chemical change Mixture and compound 2.1.1 Types of mixtures Homogenous and heterogeneous mixtures **Practical**: To prepare (a) a mixture (b) a compound using iron fillings and sulphur powder and distinguish between these on the basis of (a) appearance – homogeneity / heterogeneity (b) behavior towards magnet (c) behavior towards carbon disulphide as solvent (d) effect of heat **BIOLOGY:** **Ch 5: Fundamental unit of life** 5.1 What are living organisms made up of? 5.2 What is a cell made up of? What is the structural organization of a cell? 5.2.1 Plasma membrane or cell membrane FLIP activity: Showing osmosis through de shelled egg 5.2.2 Cell wall **Practical**: Preparation of stained temporary mount of (i) onion peel
Cycle 5	10 days	**PHYSICS** **Ch 8: Motion** 8.4)Graphical representation of motion a) Distance-time graph(D-T) b) Velocity-time graph(V-T) 8.5)Equation of motion by Graphical Method a) Equation for V-T Relation, b). Equation D-T Relation

		c) Equation for Position -Velocity Relation BBQ and TB questions **CHEMISTRY** **Ch: 2 Is Matter Around Us Pure** 2.2 What is a solution 2.2.2 What is a suspension 2.2.3 What is a colloidal solution 2.2.1 Concentration of solution, Saturated and unsaturated solution, Solubility **Practical**: To prepare a true solution of common salt in water, suspension of sand in water and colloid of milk in water and distinguish among these on the basis of (a) transparency (b) filtration (c) stability **BIOLOGY:** **Ch 5: Fundamental unit of life** 5.2.3 Nucleus 5.2.4 Cytoplasm 5.2.5 Cell Organelles : (i) Endoplasmic reticulum (ii) Golgi Apparatus (iii) Lysosomes **Practical**: Preparation of stained temporary mount of (ii) Human Cheek Cell
Cycle 6	10 days	**PHYSICS** **Ch 8: Motion** 8.6) Uniform Circular Motion Assignment and Exercise Questions **Ch9 : Force And Laws Of Motion** 9.1)Balanced and Unbalanced Force 9.2) First Law of Motion **CHEMISTRY** **Ch 2: Is Matter Around Us Pure** 2.3 Separating the components of a mixture 2.3.1 How can we obtain coloured component (dye) from blue/black ink 2.3.2 How can we separate cream from milk 2.3.3 How can we separate a mixture of two immiscible liquids 2.3.4 How can we separate a mixture of salt and ammonium chloride 2.3.5 Is the dye in black ink a single colour

		BIOLOGY **Ch 5: Fundamental unit of life** 5.2.5 Cell Organelles (iv) Mitochondria (v) Plastids (vi) Vacuoles Cell division **Ch 6: Tissues** 6.1 Introduction -Types of tissues 6.2 Plant tissues 6.2.1 Meristematic Tissue
Cycle 7	10 days	**PHYSICS** **Ch 9 : Force And Laws Of Motion** 9.3 Inertia of Mass 9.4 Second Law of Motion a) Mathematical formulation of second law of motion **CHEMISTRY** **Ch 2: Is Matter Around Us Pure;** 2.3.6 How can we separate a mixture of two miscible liquids 2.3.7 How can we obtain different gases from air 2.3.8 How can we obtain pure copper sulphate from an impure sample **Practical**: To separate the components of a mixture of sand, common salt and ammonium chloride (or camphor) by sublimation **Practical**: To carry out the following reactions and classify them as physical or chemical changes (a) iron nails with copper sulphate solution in water (b) burning of magnesium in air (c) zinc with dilute sulphuric acid(d) heating of copper sulphate(e) sodium sulphate with barium chloride in form of their solutions in water **BIOLOGY** **Ch 6: Tissues** 6.2.2 Permanent tissues (i) Simple permanent tissue - Parenchyma, Sclerenchyma and Collenchyma (ii) Complex Permanent tissues – xylem and phloem Special Tissue - Cork, Epidermis, Stomata

		6.3 Animal Tissues: 6.3.1 Epithelial tissue. **Practical**: Identification of Parenchyma, Collenchyma and Sclerenchyma tissues of plants from prepared slides. Draw their labeled diagrams.
Cycle 8	10 days	**PHYSICS** **Ch 9: Force And Laws Of Motion** 9.5)Third Law of Motion Physics Project Based on "Newton's Laws on motion" **Exercise Questions, Assignment** **CHEMISTRY** **Ch 14: Natural Resources** 14.1 The breath of life air 14.1.1 The role of atmosphere in climate control 14.1.2 The movement of air : Winds 14.1.3 Rain 14.1.4 Air pollution 14.2 Water a wonder liquid 14.2.1 Water pollution 14.3 Mineral riches in the soil **BIOLOGY** **Ch 6: Tissues** 6.3.2 Connective tissue 6.3.3 Muscular tissue 6.3.4 Nervous tissue **Practical**: Identification of Striped, Smooth and Cardiac muscles fibers, nerve cells in animals from prepared slides. Draw their labeled diagrams.
Cycle 9	10 days	**Revision**
Half Yearly Examination		
Term 2		
Cycle 10	10 days	**PHYSICS** **Ch10: Gravitation** a)Universal Laws of gravitation b) Importance of the universal law of gravitation 10.2 Free Fall

		a)To calculate the g b) Motion of objects under the influence of gravitational force of the earth BBQ and TB questions **CHEMISTRY** **Ch 14: Natural Resources** 14.4 Biogeochemical cycles 14.4.1The water cycle 14.4.2 The nitrogen cycle 14.4.3 The carbon cycle 14.4.3 (i) The Green House Effect 14.4.4 The oxygen cycle 14.5 The ozone layer **BIOLOGY** **Ch 7: Diversity in Living Organisms** 7.1 What is the basis of classification? 7.2 Classification and Evolution 7.3 The hierarchy of Classification 7.3.1 Monera 7.3.2 Protista 7.3.3 Fungi 7.3.4 Plantae 7.3.5 Animalia 7.4 Plantae
Cycle 11	10 days	**PHYSICS** **Ch 10: Gravitation** 10.3 Mass 10.4 Weight a)Weight of an object on moon 10.5 Thrust and Pressure, **Demonstration in Lab of Example 10.6** **CHEMISTRY** **Ch 3: Atoms and Molecules** 3.2 What is an atom 3.2.1 What are the modern day symbols of atoms of different elements 3.2.3 How do atoms exist 3.3 What is a molecule 3.3.1 Molecule of element 3.3.2 Molecule of Compound **BIOLOGY** **Ch 7: Diversity in Living Organisms** 7.4.1 Thallophyta

		7.4.2 Bryophyta 7.4.3 Pteridophyta 7.4.4 Gymnosperms 7.4.5 Angiosperms **Practical**: Study the characteristics of Spirogyra, Agaricus, Moss, Fern, Pinus (either with male or female cone) and an Angiospermic plant. Draw and give two identifying features of the groups they belong to.
Cycle 12	9 days	**PHYSICS** **Ch 10: Gravitation** 10.5.1 Pressure in fluids 10.5.2 Buoyancy 10.5.3 Why Objects Float or Sink When Placed on the Surface of Water? 10.6 Archimedes Principle 10.7 Relative Density BBQ and TB questions **CHEMISTRY** **Ch 3: Atoms and Molecules** 3.3.3 What is an ion 3.4 Writing Chemical formula 3.4.1 Formulae of simple compounds 3.2.2 Atomic mass 3.1 Laws of chemical combination 3.1.1 Law of conservation of mass 3.1.2 Law of constant proportions **BIOLOGY** **Ch 7: Diversity in Living Organisms** 7.5 Animalia 7.5.1 Porifera 7.5.2 Coelentrata (Cnidaria) 7.5.3 Platyhelminthes 7.5.4 Nematoda **Practical**: Study of the external features of root, stem, leaf and flower of monocot and dicot plants.
Cycle 13	11 days	**PHYSICS** **Ch 10: Gravitation** Assignment and Exercise **Practical:**

		Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder. Establishing the relation between the loss in weight of a solid when fully immersed in a) tap water with the weight of water displaced by it by taking at least two different solids. **CHEMISTRY** **Ch 3 : Atoms and Molecules** Atomic theory Drawbacks of atomic theory 3.5 Molecular mass and mole concept 3.5.1 Molecular mass 3.5.2 Formula unit mass 3.5.3 Mole Concept **Practical**: To verify the law of conservation of mass in a chemical reaction **BIOLOGY** **Ch 7: Diversity in Living Organisms** 7.5.5 Annelida 7.5.6 Arthropoda 7.5.7 Mollusca 7.5.8 Echinodermata 7.5.9 Protochordata 7.5.10 Vertebrata (i) Cyclostomata (ii) Pisces
Cycle 14	12 days	**PHYSICS** **Ch 11: Work and Energy** 11.1 Work (Introduction) 11.1.1 Not Much Work In Spite Of Working Hard!, 11.1.2 Scientific Conception Of Work 11.1.3 Work Done By A Constant Force **CHEMISTRY** **Ch 4: Structure Of Atom** 4.1 Charged particles in matter Discovery of electron - JJ Thomson's experiment Discovery of proton 4.2 Structure of atom 4.2.1 Thomson's model of atom 4.2.2 Rutherford model of atom

		Drawbacks of Rutherford's model of atom **BIOLOGY** **Ch 7: Diversity in Living Organisms** 7.5.10 Vertebrata (iii) Amphibia (iv) Reptilia (v) Aves (vi) Mammalia FLIP activity: Making of collage of plants/animals on the basis of their groups. **Practical**: Observe the given Pictures/Charts/Models of earthworm, cockroach, bony fish and bird. For each organism draw their picture and record: (i) One specific feature of their phylum (ii) One adaptative feature with reference to its habitat. **Ch 13: Why do we fall ill?** 13.1 Health and its failure 13.1.1 The significance of "Health" 13.1.2 Personal and community issues both matters for health 13.1.3 Distinctions between 'Healthy' and 'Disease-free' 13.2 Disease and its causes 13.2.1 What does disease look like?
Cycle 15	11 days	**PHYSICS** **Ch 11: Work and Energy** 11.2 Energy 11.2.1 Forms Of Energy 11.2.2 Kinetic Energy, 11.2.3 Potential Energy 11.2.4 Potential Energy Of An Object At A Height 11.2.5 Are Various Energy Forms Interconvertible? 11.2.6 Law Of Conservation Of Energy BBQ and TB questions **CHEMISTRY** **Ch 4: Structure of Atom** 4.2.3 Bohr's model of atom 4.2.4 Neutrons 4.3 How are electrons distributed in different orbits 4.4 Valency

		BIOLOGY **Ch:13 Why do we fall ill?** 13.2.2 Acute and chronic diseases. 13.2.3 Chronic diseases and poor health. 13.2.4 Causes of diseases 13.2.5 Infectious and non-infectious causes 13.3 Infectious diseases 13.3.1 Infectious agents
Cycle 16	11 days	**PHYSICS** **Ch 11: Work and Energy** 11.3 Rate of Doing Work 11.3.1 Commercial Unit Of Energy Exercise and Assignment **CHEMISTRY** **Ch 4: Structure of Atom;** 4.5 Atomic number and Mass number; 4.5.1 Atomic number; 4.5.2 Mass number; 4.6 Isotopes; 4.6.1 Isobars; **BIOLOGY:** **Ch 13: Why do we fall ill?** 13.3.2 Means of spread 13.3.3 Organ specific-tissue specific manifestations 13.3.4 Principles of treatment 13.3.5 Principles of prevention
Cycle 17	5 days	**Revision**
ANNUAL EXAMINATION		

Subject: MATHEMATICS
Term 1

Cycle 1	10 days	**1. NUMBER SYSTEMS** a. Introduction b. Irrational Numbers c. Real Numbers and their Decimal Expansions

		d. Representing Real Numbers on the Number Line
Cycle 2	10 days	**1. NUMBER SYSTEMS (Cont..) + Activity** e. Operations on Real Numbers f. Laws of Exponents for Real Numbers Activity: To construct a square root spiral **2. POLYNOMIALS** a. Introduction b. Polynomials in One Variable c. Zeroes of a Polynomial
Cycle 3	10 days	**2. POLYNOMIALS (cont...)+ Activity** d. Remainder Theorem e. Factorisation of Polynomials f. Algebraic Identities Activity: To verify the identity of square of (a + b + c)
Cycle 4	10 days	**3. COORDINATE GEOMETRY + Activity** a. Introduction b. Cartesian System c. Plotting a Point in the Plane if its Coordinates are given Activity: To obtain the mirror image of a given geometrical figure with respect to x-axis and y-axis
Cycle 5	10 days	**4. LINEAR EQUATIONS IN TWO VARIABLES** a. Introduction b. Linear Equations c. Solution of a Linear Equation d. Graph of a Linear Equation in Two Variables e. Equations of Lines Parallel to x-axis and y-axis **15. PROBABILITY** a. Introduction b. Probability – an Experimental Approach
Cycle 6	10 days	**6. LINES AND ANGLES** a. Introduction b. Basic Terms and Definitions c. Intersecting Lines and Non- intersecting Lines d. Pairs of Angle e. Parallel Lines and a Transversal f. Lines Parallel to the same Line g. Angle Sum Property of a Triangle
Cycle 7	10 days	**12. HERON'S FORMULA** a. Introduction b. Area of a Triangle – by Heron's Formula c. Application of Heron's Formula in finding Areas of Quadrilaterals

Cycle 8	10 days	**7. TRIANGLES** a. Introduction b. Congruence of Triangles c. Some Properties of a Triangle d. Some More Criteria for Congruence of Triangles e. Inequalities in a Triangle Activity: To obtain the incentre, circumcenter, orthocenter and centroid of a triangle by paper folding activity
Cycle 9	10 days	**Revision**
Half Yearly Examination		
Term 2		
Cycle 10	10 days	**13. SURFACE AREAS AND VOLUMES** a. Introduction b. Surface Area of a Cuboid and a Cube c. Surface Area of a Right Circular Cylinder d. Surface Area of a Right Circular Cone e. Surface Area of a Sphere
Cycle 11	10 days	**13. SURFACE AREAS AND VOLUMES (Cont...) + Activity** f. Volume of a Cuboid g. Volume of a Cylinder h. Volume of a Right Circular Cone i. Volume of a Sphere **Activity: To obtain the formula of lateral surface area of a cylinder by paper folding activity**
Cycle 12	09 days	**14. STATISTICS** a. Introduction b. Collection of Data c. Presentation of Data d. Graphical Representation of Data e. Measures of Central Tendency
Cycle 13	11 days	**8. QUADRILATERALS** a. Introduction b. Angle Sum Property of a Quadrilateral c. Types of Quadrilaterals d. Properties of a Parallelogram

		e. Another Condition for a Quadrilateral to be a Parallelogram f. The Mid-point Theorem **Activity: To verify mid-point theorem for a triangle, using paper cutting and pasting**
Cycle 14	12 days	**9. AREAS OF PARALLELOGRAMS AND TRIANGLES** a. Introduction b. Figures on the same Base and Between the same Parallels c. Parallelograms on the same Base and between the same Parallels d. Triangles on the same Base and between the same Parallels
Cycle 15	11 days	**10. CIRCLES** a. Introduction b. Circles and its Related Terms : A Review c. Angle Subtended by a Chord at a Point d. Perpendicular from the Centre to a Chord e. Circle through Three Points f. Equal Chords and their Distances from the Centre
Cycle 16	11 days	**10. CIRCLES (Cont…)** g. Angle Subtended by an Arc of a Circle h. Cyclic Quadrilaterals **Activity: a) To verify that the angle subtended by an arc at the centre is double the angle subtended by the same arc at remaining part of the circle** **(b) To verify that the opposite angles of a cyclic quadrilaterals are supplementary.** **11. CONSTRUCTION** a. Basic constructions b. Some construction of Triangles
Cycle 17	5 days	**Revision**
ANNUAL EXAMINATION		

Subject : HINDI 'B' Term 1		
Cycle 1	10 days	**स्पर्श** : दुख का अधिकार **संचयन** : गिल्लू
Cycle 2	10 days	**स्पर्श** : रहीम के दोहे **व्याकरण** : विलोम शब्द, पर्यायवाची **रचना** : पत्र, अनुच्छेद , अपठित गद्यांश
Cycle 3	10 days	**स्पर्श** : रैदास के पद **व्याकरण** : अनुस्वार, अनुनासिक
Cycle 4	10 days	**व्याकरण** : उपसर्ग , प्रत्यय से शब्द निर्माण
Cycle 5	10 days	**संचयन** : स्मृति **रचना** : पत्र , अनुच्छेद लेखन , संदेश लेखन, अपठित गद्यांश
Cycle 6	10 days	**स्पर्श** : एवेरेस्ट मेरी शिखर यात्रा
Cycle 7	10 days	**संचयन** : आदमीनामा **व्याकरण** : श्रुतिसम भिन्नार्थक शब्द , शब्द और पद **रचना** : पत्र , अनुच्छेद लेखन , संवाद लेखन
Cycle 8	10 days	**स्पर्श** : तुम कब जाओगे अतिथि , कल्लू कुम्हार की उनकोटि (पाठ केवल पठन हेतु) **व्याकरण** : अर्थ की दृष्टि से वाक्य के भेद **रचना** : पत्र , नारा लेखन
Cycle 9	10 days	**Revision**
Half Yearly Examination		
Term 2		
Cycle 10	10 days	**स्पर्श** : एक फूल की चाह
Cycle 11	10 days	**स्पर्श** : धूल **संचयन** : मेरा छोटा सा निजी पुस्तकालय

		(पाठ केवल पठन हेतु) **रचना** : संदेश लेखन , पत्र
Cycle 12	09 days	**संचयन** : दीये जल उठे **स्पर्श** : वैज्ञानिक चेतना के वाहक सर चंद्रशेखर वेंकटरमन (पाठ केवल पठन हेतु)
Cycle 13	11 days	**संचयन** : हामिद खाँ , गीत - अगीत (पाठ केवल पठन हेतु)
Cycle 14	12 days	**स्पर्श** : शुक्रतारे के समान, नए इलाके में , खुशबू रचते हैं हाथ **रचना** : संवाद लेखन
Cycle 15	11 days	**स्पर्श** : कीचड़ का काव्य, अग्निपथ
Cycle 16	11 days	**स्पर्श** : धर्म की आड़ **रचना** : संवाद लेखन , पत्र , अनुच्छेद लेखन , अपठित गद्यांश
Cycle 17	5 days	**Revision**
ANNUAL EXAMINATION		

Subject : GUJARATI **Term 1**		
Cycle 1	10 days	કવિતા1: છપ્પા, પાઠ 2 પરોપકારી મનુષ્યો વ્યાકરણ: સમાનાર્થી લેખન : વાર્તાલેખન વાચન : કાવ્યસમીક્ષા
Cycle 2	10 days	કવિતા 3 જ્યાં જ્યાં વસે એક ગુજરાતી કવિતા 5 તું તારા દિલનો દીવો વ્યાકરણ : વિરોધી

		લેખન: પત્રલેખન અભ્યાસકાર્ય
Cycle 3	10 days	પાઠ 6 ભાષા જાય તો સંસ્કૃતિ જાય વ્યાકરણ : રૂઢિપ્રયોગ વાચન : ગદ્યસમીક્ષા લેખન : નિબંધ
Cycle 4	10 days	કવિતા 7 નવસર્જનની વાટે વ્યાકરણ: લિંગ લેખન: અહેવાલ લેખન વાચન : કાવ્ય સમીક્ષા અભ્યાસકાર્ય
Cycle 5	10 days	પાઠ 9 પારખું લેખન : જાહેરાત **(Advertisement)** , નિબંધલેખન વાચન : ગદ્યસમીક્ષા
Cycle 6	10 days	પૂરક વાચન પાઠ 3 ઉપમન્યુ વ્યાકરણ: વચન લેખન: નિબંધ લેખન,અભ્યાસકાર્ય
Cycle 7	10 days	કવિતા 10 એ લોકો, વાચન : ગદ્યસમીક્ષા,કાવ્યસમીક્ષા લેખન : વાર્તાલેખન
Cycle 8	10 days	લેખન: નિબંધ લેખન, અહેવાલ લેખન વાચન: કાવ્યસમીક્ષા અભ્યાસકાર્ય
Cycle 9	10 days	**Revision**
Half Yearly Examination		
Term 2		
Cycle 10	10 days	પાઠ11 વારસાગત, કવિતા12 તો જાણું

		વ્યાકરણ : વાક્ય શુદ્ધિ, સંયોજક (તો,અને,એટલે,જ્યારે-ત્યારે) લેખન : પત્રલેખન
Cycle 11	10 days	પાઠ13 ઘડવૈયા કવિતા-14 મારું તારું લેખન: વાર્તાલેખન વાચન : કાવ્ય સમીક્ષા અભ્યાસકાર્ય
Cycle 12	09 days	પાઠ15 સો ટચનું સોનું લેખન : નિબંધ લેખન
Cycle 13	11 days	પાઠ – 17 છબી ભીતરની , કવિતા 18 દીકરીની વિદાય વાચન: ગદ્યસમીક્ષા અભ્યાસકાર્ય
Cycle 14	12 days	પાઠ 21 પ્રાણીઓનું ગોકુળ કવિતા 20 હરિ આવો ને, વાચન: કાવ્ય સમીક્ષા
Cycle 15	11 days	કવિતા 22 લઘુકાવ્યો વ્યાકરણ: સર્વનામ લેખન : નિબંધ લેખન વાચન: કાવ્ય સમીક્ષા અભ્યાસકાર્ય
Cycle 16	11 days	પૂરક વાચન પાઠ - 4 જન્મી રહેલા બાળક અને ભગવાન વચ્ચેનો સંવાદ લેખન : પત્રલેખન જાહેરાત(Advertisement) વાચન:ગદ્યસમીક્ષા
Cycle 17	5 days	**Revision**
ANNUAL EXAMINATION		

Subject: SANSKRIT Term 1		
Cycle 1	10 days	**वर्णमाला, स्वर-सन्धि**: (दीर्घ/गुण/वृद्धि/यण्/अयादि), **व्यंजन -सन्धि**: (वर्गीयप्रथमवर्णस्य तृतीयवर्णे परिवर्तनम्, 'म'स्थाने अनुस्वार:), **विसर्गसन्धि**: (उत्वम्)
Cycle 2	10 days	**पाठ:2** (स्वर्णकाक:) पुल्लिङ्ग-शब्दरूपाणि अकारान्त(बालक), उकारान्त(साधु), ऋकारान्त(पितृ)
Cycle 3	10 days	**स्त्रीलिङ्ग-शब्दरूपाणि**- आकारान्त(लता), ईकारान्त(नदी), ऋकारान्त (मातृ)
Cycle 4	10 days	**सर्वनाम-शब्दरूपाणि**- (अस्मद्/युष्मद्) संख्या (1-100)
Cycle 5	10 days	**पाठ-:3** (गोदोहनम्) प्रत्यया:(क्त्वा-ल्यप्-तुमुन्), चित्रलेखनम्, पत्रलेखनम्
Cycle 6	10 days	**पाठ-:4** (कल्पतरु:) अनुवादलेखनम्, अपठितावबोधनम्
Cycle 7	10 days	**पाठ-:5** (सूक्तिमौक्तिकम्) अनुच्छेदलेखनम्
Cycle 8	10 days	**पाठ-:6** (भ्रान्तो बाल:)
Cycle 9	10 days	**Revision**
Half Yearly Examination		

Term 2		
Cycle 10	10 days	**धातुरूपाणि** (परस्मैपदिन:- पठ्, गम्, वद्, भू, क्रीड्, नी, दृश्, अस्, कृ, पा(पिब्) (पञ्चलकारेषु)
Cycle 11	10 days	**पाठ-:8** (लौहतुला) धातुरूपाणि (आत्मनेपदिन:- सेव्, लभ् (लट्-लृट्)
Cycle 12	09 days	**प्रत्यया**:(क्तवतु शतृ/शानच्) चित्रलेखनम्, पत्रलेखनम्, अनुवादलेखनम्, अपठितावबोधनम्
Cycle 13	11 days	**पाठ-:9** (सिकतासेतु:)
Cycle 14	12 days	**पाठ-:10** (जटायो: शौर्यम्) कारक-उपपदविभक्तीनां प्रयोग:
Cycle 15	11 days	**पाठ-:11** (पर्यावरणम्)
Cycle 16	11 days	**पाठ-:12** (वाङ्मन: प्राणस्वरूपम्) उपसर्गा: (प्र, परा-आदय:)
Cycle 17	5 days	**Revision**
ANNUAL EXAMINATION		

Subject: FRENCH Term 1		
Cycle 1	10 days	**Leçon 1-La famille** Saluer, Se présenter, présenter quelqu'un, s'informer sur les liens familiaux, la com. Ecrite, préparer un dialogue, Grammaire : les articles (défini, indéfini), les nombres.
Cycle 2	10 days	**Leçon 1-La famille**

		Les verbes en ER, l'information sur la France **Leçon 2- Au lycée** : Poser des questions, demander des informations (âge, nationalité, métier/adresse), Grammaire : les prépositions, les adjectifs possessifs, Les verbes en IR
Cycle 3	10 days	**Leçon 2- Au lycée :** Situer dans l'espace, remercier, exprimer la possession, les monuments français et indiens, décrire une personne. , l'accord des adjectifs, les adjectifs démonstratifs **Leçon -3 : Une journée de Pauline** : la vie quotidienne Grammaire : l'accord des adjectives, Les verbes en RE et irréguliers la com. Orale,
Cycle 4	10 days	**Leçon -3 : Une journée de Pauline** - Les articles contractes/partitifs, les verbes pronominaux, Exprimer les préférences, parler des habitudes, l'heure, les repas, les gestes et les habitudes des français, l'emploi du temps Un message (refuser/accepter) Décrire une journée, l'expression orale Bilan-1
Cycle 5	10 days	**Leçon-4 : Les saisons** : Décrire une saison, donner des conseils(l'impératif), l'expression écrite Grammaire: le future proche, le future simple , class test(writing)
Cycle 6	10 days	**Leçon-4 : Les saisons** - l'histoire des monuments français, la com. écrite **Leçon - 5 : Les voyages** : Les moyens de transport, les vacances, la rentrée, raconter ses vacances, La promotion touristique Grammaire : les prépositions de lieux La partie écrite : La carte postale(la formule d'ouverture et de clôture), class test(grammaire)
Cycle 7	10 days	**Leçon - 5 : Les voyages** : les expressions avec avoir et être, la com. orale Grammaire : le passé composé avec avoir et être, Posez des questions. **Leçon-6 : Les loisirs et les sports**: parler des sports et des loisirs, sports
Cycle 8	10 days	**Leçon-6 : Les loisirs et les sports** Grammaire : L'imparfait, dites autrement

		, parler des habitudes au passe(les verbes pronominaux au passe), parler du sport et des loisirs, la com. Ecrite Bilan-2
Cycle 9	10 days	**Revision**
Half Yearly Examination		
Term 2		
Cycle 10	10 days	**Leçon -7 L'argent de poche** : L'autonomie financière, Gagner/dépenser l'argent de poche, ouvrir un compte bancaire, la com. orale Grammaire : les pronoms personnels, les adjectifs et pronoms interrogatifs, les expressions négatives
Cycle 11	10 days	**Leçon 8-Faire des achats** : les légumes et les fruits, les magasins français, les achats, exprimer le désir, le com. écrite Grammaire : le conditionnel présent de politesse, Les expressions de quantités le pronom partitif « en »,.
Cycle 12	09 days	**Leçon- 9-Un diner en famille** : Une recette, réserver une table, commander un plat, demander l'avis ou l'opinion, Grammaire : les pronoms **y** et **en**, l'expression orale
Cycle 13	11 days	**Leçon- 9-Un diner en famille** : Menu d'un restaurant, le passe récent, les pronoms interrogatifs, Les plats typiquement français. Bilan-3 **Leçon-10 : La mode** : les noms des vêtements
Cycle 14	12 days	**Leçon-10 : La mode :** La mode au passé et présent, l'achat en ligne, interviewer un mannequin, la com. orale Grammaire : le comparatif et le superlatif, le pronom tonique, l'expression écrite
Cycle 15	11 days	**Leçon-11 : Les fêtes** : Les fêtes de la France et Inde, Grammaire : L'hypothèse (si + imparfait + conditionnel présent), Les pronoms relatifs simples (qui, que, où) La partie écrite : une lettre informelle, la com. orale

Cycle 16	11 days	**Leçon -12 : La francophonie** : La Francophonie et les pays francophones, la recette de couscous, La ville en Inde- Pondichéry La récapitulation générale (les exercices). Bilan-4
Cycle 17	5 days	**Revision**
ANNUAL EXAMINATION		

Subject: INFORMATION TECHNOLOGY (402) Term 1		
Cycle 1	10 days	Part B – Unit 5: Digital Presentation • Introduction to Digital Presentation; • Create simple presentation; • Slide layouts; • Designing a presentation; • Presentation themes; • Edit text; • Hierarchy of tabs;
Cycle 2	10 days	Part B – Unit 5: Digital Presentation • Hierarchy of tabs; • Inserting different objects in a presentation; • Presentation views; • Arrange, delete, add slides; • Print a presentation;
Cycle 3	10 days	Part A – Unit 1: Communication Skills • Methods of Communication; • Meaning of Communication; • Importance of Communication skills; • Elements of Communication cycle; • Perspectives of Communication; • Factors affecting perspective of communication; • Writing skills;
Cycle 4	10 days	Part B – Unit 5: Word Processing • Introduction to Word Processing; • Elements of User Interface;

		• Formatting a document; • Cover page; • Hierarchy of tabs; • Spell check; • Thesaurus; • Find and Replace; • Working with lists and tables;
Cycle 5	10 days	Part B – Unit 5: Word Processing • Page designing using borders, background, watermark; • Setting up page for print; • Document views; • Working with Pictures, smart art; • Convert text to table; • Preview document;
Cycle 6	10 days	Part B – Unit 1: Fundamentals of Computer • Introduction to Computer; • Parts of a computer system; • Computer Fundamentals; • Types of computer;
Cycle 7	10 days	Part B – Unit 1: Fundamentals of Computer • Operating system; • Types of Operating system; • Files & folders; • Introduction to Internet; • Applications of Internet; • Web browser; Web page & website; • Computer Security and privacy
Cycle 8	10 days	Part A – Unit 3: Basic ICT Skills • Role of ICT • Computer components and peripheral devices
Cycle 9	10 days	**Revision**
Half Yearly Examination		
Term 2		
Cycle 10	10 days	Part A – Unit 3: Basic ICT Skills(Contd.) • Basic computer operations • Internet and its application

Cycle 11	10 days	Part B – Unit 4 : Spreadsheet • Introduction to Spreadsheets; • Enter data in spreadsheet; • Insert Column & Row; • Format Cell & its contents; • Hierarchy of tabs; • Border of cells; • Cell color; • Delete Cell / Row / Column; • Cell Modes; • Number formats; • Cell address;
Cycle 12	09 days	Part B – Unit 4 : Spreadsheet • Creating formulas; • Basic calculations- Addition, subtraction, multiplication, division; • Merging cells; • Text wrapping; • Inserting objects; • Using currency symbols; • Working with built-in functions in Excel; • Workbook views; • Managing worksheets in a workbook; • Print a worksheet;
Cycle 13	11 days	SQL (Structured Query Language) • Database concepts; • Introduction to MySQL and SQL; • Data Types in SQL; • Types of SQL commands; • Create a table; • Insert data in a table; • SELECT ALL; Select using Where clause;
Cycle 14	12 days	SQL (Structured Query Language) • Comparison operators; • Between and order by clause; • Wild card characters; • Update query; • Delete query; • Alter query;
Cycle 15	11 days	Part B – Unit 6 : Email Messaging • Beginning with Email; • Types of E-mail services;

		• Creating an account; • Receive and respond to E-mail messages; • Using E-mail ribbon; • Spell check; • Using Help;
Cycle 16	11 days	Part B – Unit 6 : Email Messaging • Print an e-mail message; • Adding and modifying a contact; • Using folders and labels; Part A – Unit 4 : Entrepreneurial skills • Meaning of Entrepreneurship development; • Distinguishing characteristics of Entrepreneurship;
Cycle 17	5 days	**Revision**
ANNUAL EXAMINATION		

Subject: ARTIFICIAL INTELLIGENCE (417) Term 1		
Cycle 1	10 days	Chapter 1 – Artificial Intelligence • Meaning of AI • Types of AI • Three domains of AI
Cycle 2	10 days	Chapter 1 – Artificial Intelligence • The relevance of AI in Daily life • Using AI to achieve SDG's • Possibilities of AI in various Fields • Ethical concerns related to AI
Cycle 3	10 days	Chapter 4 - Introduction to Python • Print Statements • Escape sequence • Data types
Cycle 4	10 days	Chapter 4 - Introduction to Python(Contd.) • Variables

		• Input statements • Operators • Casting & math Function
Cycle 5	10 days	Chapter 4 - Introduction to Python(Contd.) • If conditions • Operators(Logical) • Nested ifs
Cycle 6	10 days	Chapter 4 - Introduction to Python(Contd.) • Logical identity • Elif • Literals
Cycle 7	10 days	Chapter 2 – AI Project Cycle • Introduction to AI Project Cycle Framework • Problem Identification • Problem Scoping
Cycle 8	10 days	Chapter 2 – AI Project Cycle • Data Acquisition • Data Exploration • Modeling • Evaluation and Deployment
Cycle 9	10 days	**Revision**
Half Yearly Examination		
Term 2		
Cycle 10	10 days	Chapter 4 - Introduction to Python(Contd.) • Range () • Identity operators(in, not in) • Loops – into • For loop
Cycle 11	10 days	Chapter 4 - Introduction to Python(Contd.) • For loops (contd.) • Nested for • While loop

Cycle 12	09 days	Chapter 4 - Introduction to Python(Contd.) • While (contd.) • Nested while • Loop else
Cycle 13	11 days	Chapter 4 - Introduction to Python(Contd.) • Strings • Lists
Cycle 14	12 days	Chapter 3 – Introduction to Neural Networks • AI ethics • AI Based activities
Cycle 15	11 days	Chapter 3 – Introduction to Neural Networks • Relation between Networks and Human Nervous system • Artificial Neural Network(ANN)
Cycle 16	11 days	Chapter 3 – Introduction to Neural Networks • How Neural network learn • Activities based on NN • Information Flows through NN • Cyber Safety & AI
Cycle 17	5 days	**Revision**
ANNUAL EXAMINATION		