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| **Term**  **1st** | **Contents** | **Learning Goals and Tips for Teachers** |
| English Book.  1.The Tempest – I &  The Tempest – II  2. How a client was saved.  3.To the Cuckoo  4.The Palanquin Bearers.  5.The Childs prayer  6.The happy Prince  7.A Basketful of Sea Trouts. | 1.Enrich vocabulary through crossword puzzles, word chain.  2.Developes language conversation and story telling.  3.Learn grammar in a contextual and integrated manner and frame grammatically correct sentences  4.Write dictation of short paragraphs.  5. Take dictation of paragraphs from known and unknown texts.  6.The teacher is suggested to test all the four skills of language viz, listening , reading, speaking and writing of the learners. |
| Grammar Book | Present Perfect, Adverbs, Prepositions and Possessives |
| Reading, writing & Learning Practice ` | 1.The Tempest – I &  The Tempest – II  2. How a client was saved.  3.To the Cuckoo  4.The Palanquin Bearers.  5.The Childs prayer  6.The happy Prince  7.A Basketful of Sea Trouts.  7 Present Perfect, Adverbs, Prepositions and Possessives  8.Essays: Scenic Beauties, Personalities, Science Topics and historical  Letters and Applications: Official, Bussiness, Personal. |

9th Syllabus – 2019 -20 **Page No 4**

**ENGLISH**

Class begins with social behaviour for example. – Sitting properly, taking care of belongings, explain with demonstrations.

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| **Unit I** | **Contents** | **Learning Goals and Tips for Teachers** |
| English Book.  1.Packing  2.No men are foreign  3.The Adventures of  Toto | 1. Listen to simple instructions, announcements in English made in class/school and act accordingly. 2. Enrich vocabulary in English through telling and re-telling stories/folk tales 3. Write dictation of short paragraphs. 4. The teacher is suggested to test all the four skills of language viz, listening ,reading, speaking and writing of the learners. |
| Grammar Book | 1. Noun Phrases |
| Reading, writing & Learning Practice ` | 1. Packing 2. No men are foreign 3. The Adventures of Toto 4. Noun Phrases |
| **Unit II** | **Contents** | **Learning Goals and Tips for teachers** |
| English Book  1.Gulliover in Lilliput-I & Gulliver in Lilliput II  2.To Blossom  3.Beauty  4.Moti Guj-Mutineer | 1. Participate in classroom discussions on questions based on the day to day life and texts he/she already read or heard.  2. Listens and speaks briefly on a various social issues. |
| Grammar Book | 1. Articles |
| Reading, writing & Learning Practice ` | 1.Gulliver in Lilliput-I & Gulliver in Lilliput II  2.To Blossom  3.Beauty  4.Moti Guj-Mutineer  5. Articles |

**9th Syllabus Session 2019-20 Page No 1**

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| **Term**  **1st** | **Contents** | **Learning Goals and Tips for Teachers** |
| English Book.  1.Saint of the Gutters  2.Sheikh Noor-ud-din  Wali (R.A)  3.The Road not taken.  4.I cannot remember my mother.  5.Old Man at the Bridge.  6.If I Were You  7.E-mail and Diary entry | 1.Read independently and silently in English.  2.Understanding about the story and characters in the story, in English / home language.  3.Recites Poems individually / in groups with correct pronunciation and intonation.  4.Understand different forms of writing (formal & informal letters,e-mail, diary entry and essays)  5.Participants in role play, dialogue and dramatization of stories read and heard.  6.Take dictation of paragraphs from known and unknown texts. |
| Grammar Book | Adjectives, Verbs and Passive Voice |
| Reading, writing & Learning Practice ` | 1.Saint of the Gutters  2.Sheikh Noor-ud-din  Wali (R.A)  3.The Road not taken.  4.I cannot remember my mother.  5.Old Man at the Bridge.  6.If I Were You  7 Adjectives, Verbs and Passive Voice.  8.Essays: Scenic Beauties, Personalities, Science Topics and historical  Letters and Applications: Official, Bussiness, Personal. |

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| **Winter Assignment ( to be done on the separate note books)** |

9th Syllabus – 2019 -20 **Page No 2**

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| **Unit**  **III** | **Contents** | **Learning Goals and Tips for Teachers** |
| English Book  1.The Fun they had  2.On killing a Tree.  3.Cart Driver  4.The Last Leaf | 1.Practice reading aloud with pause and intonation  2.Infer the meaning of unfamiliar words from the context  3.Developes imagination/creativity through story telling  4.Recites poems clearly and fluently  . |
| Grammar Book | Tenses |
| Reading, writing & Learning Practice ` | 1.The Fun they had  2.On killing a Tree.  3.Cart Driver  4.The Last Leaf  5.Tenses |

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| **Winter Assignment ( to be done on the separate note books)** |

9th Syllabus – 2019 -20 **Page No 3**

**Computer**

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| Unit I | Reading, Writing and Learning Practice | 1. Convergence of computers, Communication and content 2. Input and output devices. |

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| Unit II | Reading, Writing and Learning Practice | 1. Introduction to windows.  2. Introduction to word processing |

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| Term  1st | Reading, Writing and Learning Practice | 1. Foprmating a document 2. Inserting tables 3. Presentstion graphics |

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| Unit III | Reading, Writing and Learning Practice | 1. Introduction to spread sheet |

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| Term  2nd | Reading, Writing and Learning Practice | 1. Word processing tools 2. More word processing tools 3. IT applications. |

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| **Winter Assignment ( to be done on the separate note books)** |

9th Syllabus – 2019 -20 **Page No 8**

**Mathematics**

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| **Unit**  **I** | **Contents** | **Learning Goals and Tips for Teachers** |
| Number Systems  Constructions | 1.To have the understanding of rational and irrational numbers.  2.To be able to identify the rational and irrational numbers on the basis of their decimal representation  3.To be able to find some rational/irrational numbers between given two rational/irrational numbers  4.To be able to construct the angles using straight edge and compass.  (50°,90°,45°.120° etc)  5.To be able to construct equilateral angles |

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| **Unit**  **II** | **Contents** | **Learning Goals and Tips for Teachers** |
| Constructions  Polynomials  Linear Equations | 1.To be able to construct the triangles with other given situations  2.To have the understanding of polynomials  3.To have the kno0wledge of Zeroes and degree of polynomials  4.To be able to divide a polynomial by another polynomial  5.To have the concept of remainder and factor theorem  6.To have the understanding of Algebraic identities  7.To be able to solve the linear equations algebraically as well as graphically  8.To have knowledge of equations of lines parallel to X-axix & Y-axix  9.To have the understanding of framing linear equations from the given statement |

9th Syllabus – 2019 -20 **Page No 5**

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| **Term**  **1st** | **Contents** | **Learning Goals and Tips for Teachers** |
| Lines and Angles  Triangles  Logarithm | 1.To have the knowledge Euclid’s definations,Axioms and Postulates.  2.To have the knowledge of ( types of Angles, complementary,supplementary,linear pair,vertically opposite,corresponding,alternate angles)  3.To have the knowledge of all types of triangles.  4.To have the understanding angle sum property of a triangle and exterior angle theorem  5.To have the concept of triangular inequality  6.To have concept of congruence of triangles and criteria for triangles.  7.To have the concept og logrithm |

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| **Unit**  **III** | **Contents** | **Learning Goals and Tips for Teachers** |
| Co-ordinate Geometry  Statics  Quadrilaterals | 1.To have the knowledge of Cartesian plan  2.To be able to locate and identify the coordinates of located point  3.To have the understanding of data and be able to collect data locally and interpret it tabulated form.  4.To be able to represent the data graphically  5.To have the knowledge of mean,mode,and median  6.To have concept of quadrilaterals and their properties  7.To be able to compare the different quadrilaterals and be able to identify the common properties. |

9th Syllabus – 2019 -20 **Page No 6**

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| **Term**  **2nd** | **Contents** | **Learning Goals and Tips for Teachers** |
| Area of Parallelograms  Surface area and Volume  Circles  Heron’s formula | 1.To have the concept of area  2. To have the knowledge of figurers having same base and between same parallels  3.To have the concept of median of triangles and its importance  4.To have concept of different formula used to calculate the surface area and volume of different solids.  5.To be able to use the concept to calculate the volume and surface area of ; volley ball, class room, drum, book.  6.To have the knowledge of circle and terms related to it.( Radius, diameter, Tangent,Chord,Secant,Sector,Segment)  7.To have the knowledge of different angles made in circle by different line segments.  8.To have the knowledge of Heron’s formula and its uses to calculate the area of triangle |

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| **Winter Assignment ( to be done on the separate note books)** |

9th Syllabus – 2019 -20 **Page No 7**

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| **Term**  **1st** | **Contents** | **Learning Goals and Tips for Teachers** |
| Reading, writing & Learning Practice of  Is matter around us  Work, Energy and Power  Tissues  Natural Resources | 1.To separate the contents of mixture:  i.by sublimation ii) by crystallization  iii).With thew help of a separating funnel  2.To carry out the following processes, record observations and classify then into physical and chemical changes.  i).Melting of ice. ii) Addi9ng pieces of iron to mcopper sulphate solution in a beaker. iii) Burning of magnesium in air.  iv) Dissolving commo0n salt in water.  v) Adding zinc pieces to dilute sulphuric acid.  3) To prepare:- i) A true solution of sugar and alum.ii) A suspensional chalk powder and fine sand in water.iii) A colloidal solution of starch in water and distinguish between these on the basis of: a) Filtration criterian and b) Stability  4.Experiments with pendulum and with spring  5.Work done in lifting a weight, by moving body,by compressed spring on a raised body  6.To calculate the work done by a force using a simple toy cart.  7.Obsevation of model of human body to learn about levels of organization-  8.To study different types of plant and animal tissues from permanent slides/charts/models of Parenchyma,Sclerenchyma,Xylem and Phloem,Squanous,Cubiodal,Columnar(cilliated),Stratified (Squamous) Epitelial tissues,Adipose tissues,Tendon Hyaline cartilage, Erythrocytes,Leucocytes,Striated muscle,smooth muscle,cardiac muscle and Neuron  9.To study overview of inter relationship of air,water,soils forests. |

9th Syllabus – 2019 -20 **Page No 12**

**Social Science**

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| Unit I | History | 1. Lesson No 1 |
| Geography | 1. Lesson No 1 |
| Economics | 1. Lesson No 1 |

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| Unit II | History | 1. Lesson No 2,3 |
| Geography | 1. Lesson No 2 |
| Political Science | 1. Lesson No 1 |
| Geography | 1. Lesson No 2 |

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| Term  1st | History | 1. Lesson No 4,5 |
| Geography | 1. Lesson No 3 |
| Political Science | 1. Lesson No 2,3 |
| Disaster Management | 1. Lesson No 3 |

9th Syllabus – 2019 -20 **Page No 9**

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| Unit  III | History | 1. Lesson No 6 |
| Geography | 1. Lesson No 4 |
| Political Science | 1. Lesson No 4 |
| Disaster Management | 1. Lesson No 4 |

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| Term  2nd | History | 1. Lesson No 7,8,9 |
| Geography | 1. Lesson No 5,6 |
| Political Science | 1. Lesson No 5,6 |
| Disaster Management | 1. Lesson No 5 |
| Economics | 1. Lesson No 2 |

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| **Winter Assignment ( to be done on the separate note books)** |

9th Syllabus – 2019 -20 **Page No 10**

**Science**

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| **Unit**  **I** | **Contents** | **Learning Goals and Tips for Teachers** |
| Reading, writing & Learning Practice of  1.The fundamental unit of life  2.Matter in our surroundings | 1.To study the various parts of compound Microscope.  2.To prepare and study plant cell from onion peel and animal cell from cheek cells.  3.To study different types of cell from permanent slides/charts/models of bacterial cell, plant cell and animal cell.  4.Conversion of ice to water and water to water vapour.  5.Observe effects of heat on each of the resources. |

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| **Unit**  **II** | **Contents** | **Learning Goals and Tips for Teachers** |
| Reading, writing & Learning Practice of  1.Motion  2.Force & laws of Motion  3.Why do we fall ill | 1.To plot a distance time graph from a given data and calculate speed from it.  2.To plot a velocity-time graph from a given data and calculate accelerate from it.  3.To measure the temperature of hot water as it cools and plot a temperature –time graph  4.To study the motion of a body along an inclined plane.  5To demonstrate equall and opposite forces  6.Study the life cycle of the mosquito.  7.Studu how malaria is spreading,how to prevent mosquito breeding. |

9th Syllabus – 2019 -20 **Page No 11**

9th Syllabus – 2019 -20 **Page No 16**

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| **Unit**  **III** | **Contents** | **Learning Goals and Tips for Teachers** |
| Reading, writing & Learning Practice of  1.Flotation  2.Atoms and Molecules  3.Improvement in food resources. | 1.Experiments with floating and sinking objects.  2.To determine the density of a solid(denser than water) by using a spring balance and measuring cylinder  3.To verify Archimedes principal  4.Discussion on the fact that elements combine in a fixed proportion through discussion on chemical formulae of familiar compounds.  5.Prove the law of conservation of mass.  6.Make a list of they weeds and insects pests.  7.Make a herbarium of cereals,pilses and oil seeds and identify the seasons of their sowing.  8.Collect and preserve insects like Grasshopper, Dragon, flies and butterflies. |

**Winter Assignment ( to be done on the separate note books)**

9th Syllabus – 2019 -20 **Page No 13**

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| **Term**  **2nd** | **Contents** | **Learning Goals and Tips for Teachers** |
| Reading, writing & Learning Practice of  Diversity in Living Organisms  Prevention of Drug Abuse & Sexuality Transmitted Diseases  Gravitation  Sound  Structure of Atom | 1.Collect and prepare the specimen of Lichens, Marchania, Ferns, Cocti and other plants.  2.To study the local flora and various aquatic plants.  3.Adolescents and substance abuse, their effects and therapeutic effects  4.Sign and symptoms of drug addiction, different types of drugs,  5.Sexuality Transmitted diseases with reference to AIDS.  6.Modes of transmission and prevention of aids.  7.Diagnsis of HIV infection  8.Prevention of spread of disease, social stigma associated with AIDS.  9.Analysis of motion of ball falling down and of ball thrown up.  10.Measuring mass and weight by a spring balance.  11.To study the change in frequency of as simple pendulum due to change in length pendulum.  12.To demonstrate the phenomenon of weightiness.  13.Showing the structure of ear through model / chart  14.To verify laws of reflection of sound.  15.To study the oscillations of a :-  a.Simple pendulum  b.Tunning Fork  c.Stretched string.  d.Slinky  16.To prepare3 a chart depiciting the distribution of electrons in various orbits (shells) around the nucleus for elements with atomic no’s 1 to 20 according to Bohar’s model of Atom |

9th Syllabus – 2019 -20 **Page No 14**

**Urdu**

9th Syllabus – 2019 -20 **Page No 15**

9th Syllabus – 2019 -20 **Page No 17**

9th Syllabus – 2019 -20 **Page No 18**