Jungle Dhusar, Pipraich Road, Gorakhpur

Class : IX

Subject - Physics (Session 2020-21)

| Month | No. of W.Days | Topic/Chapter | Activity/Practical |
|-------|---------------|--|--------------------|
| April | 10 | 1 - MOTION | |
| + | + | Describing Motion, Motion Along a Straight Line, | |
| May | 23 | Uniform Motion and Non-Uniform Motion, | |
| + | + | Measuring the Rate of Motion, Speed with | |
| June | 10 | Direction, Rate of Change of Velocity, Graphical | |
| | = 43 | Representation of Motion, Distance –Time Graphs, | |
| | | Velocity-Time Graphs. Equations of Motion by | |
| | | Graphical Method, Equation for Velocity-Time | |
| | | Relation, Equation for Position-Time Relation, | |
| | | Equation for Position-velocity Relation, Uniform | |
| | | Circular Motion. | |
| | | 2 - KINAMETICS - MOTION IN A STRAIGHT | |
| | | LINE | |
| | | Frame of reference, Motion in a straight line: | |
| | | Position-time graph, speed and velocity. Elementary | |
| | | concepts of differentiation and integration for | |
| | | describing motion, uniform and non- uniform | |
| | | motion, average speed and instantaneous velocity, | |
| | | uniformly accelerated motion, velocity - time and | |
| | | position-time graphs. Relations for uniformly | |
| | | accelerated motion (graphical treatment). | |
| | | MOTION IN A PLANE - Scalar and vector | |
| | | quantities; position and displacement vectors, | |
| | | general vectors and their notations; equality of | |
| | | vectors, multiplication of vectors by a real number; | |
| | | addition and subtraction of vectors, relative | |
| | | velocity, Unit vector; resolution of a vector in a | |
| | | plane, rectangular components, Scalar and Vector | |
| | | product of vectors. Motion in a plane, cases of | |
| | | uniform velocity and uniform acceleration projectile | |
| | | motion, uniform circular motion. | |
| | | Periodic Test - 1 | |

| Jul 22 FORCE AND LAWS OF MOTION - Introduction of Force, Balance and Unbalanced Forces, First Law of Force, Balance and Unbalanced Forces, First Law of Motion, Inertia and Mass, Second Law of Motion, Mathematical Formulation of Second Law of Motion, Third Law of Motion, Conservation of Momentum, Intuitive concept of force, Inertia, Newton's first law of motion; momentum and Newton's second law of motion; Impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces, Static and kinetic friction, laws of friction, rolling friction, lubrication. 2 - CIRCULAR MOTION - Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road). 3 - CURRENT ELECTRICITY - Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, electrical resistance, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistority and conductivity, Carbon resistors, colour code for carbon resistors; series and parallel combinations of resistors resperature dependence of resistance. Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's laws and simple applications, Wheatstone bridge, metre bridge. Potentiometer - principle and its applications to measure potential difference and for comparing EMF of two cells; measurement of internal resistance of a cell. 1 - MOVING CHARGES AND MAGNETISM - Concept of magnetic field, Oersted's experiment. Biot - Savart law and its application to current earrying circular loop. Ampere's law and its | T ₂₂ 1 | 22 | FORCE AND LAWS OF MOTION - Introduction | |
|--|-------------------|-----|---|--|
| Aug + + + Hotton, Mathematical Formulation of Second Law of Motion, Mathematical Formulation of Second Law of Motion, Third Law of Motion, Conservation of Momentum, Intuitive concept of force, Inertia, Newton's first law of motion; momentum and Newton's second law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces, Static and kinetic friction, laws of friction, rolling friction, lubrication. 2 - CIRCULAR MOTION - Dynamics of uniform circular motion: Centripetal force, examples of circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road). 3 - CURRENT ELECTRICITY - Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, electrical resistance, V-1 characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity, Carbon resistors, colour code for carbon resistors; series and parallel combinations of resistors; temperature dependence of resistance. Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's laws and simple applications, Wheatstone bridge, metre bridge. Potentiometer - principle and its applications to measure potential difference and for comparing EMF of two cells; measurement of internal resistance of a cell. Oct 22 | | | | |
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| | Nov | 18 | | |
| The state of the s | | | = - | |
| Dec 23 applications to infinitely long straight wire. Straight | | | | |
| = 63 and toroidal solenoids (only qualitative treatment), | | | 7 7 7 | |
| force on a moving charge in uniform magnetic and | 1 | | · · · · · · · · · · · · · · · · · · · | |
| electric fields, Cyclotron. Force on a current- | 1 | | | |
| | 1 | | | |
| carrying conductor in a uniform magnetic field, | | | | |
| force between two parallel current-carrying | | | | |
| conductors-definition of ampere, torque experienced | • | | | |
| by a current loop in uniform magnetic field; moving | ļ | | | |
| coil galvanometer-its current sensitivity and | | | Icoil galvanometer-its current sensitivity and | |
| conversion to ammeter and voltmeter. | | | | |
| | | | conversion to ammeter and voltmeter. | |

| | | 2 - WORK ENERGY & POWER - Work, work done by a constant force, Energy, Formation of Energy, Kinetic Energy, Potential Energy, Potential Energy of an object at a height, Are various Energy forms Inter convertible? Laws of Conservation of Energy, Rate of Doing Work, Commercial unit of Energy, Work done by a constant force and a variable force; kinetic energy, work-energy theorem, power.Notion of potential energy, potential energy of a spring, | |
|------------------|---------------------------------|---|---|
| | | conservative forces: conservation of mechanical energy (kinetic and potential energies); non-conservative forces: motion in a vertical circle. | |
| | | 3 - COLLISION - Elastic and Inelastic collisions in | |
| | | one and two dimensions. | |
| T1 | 22 | Periodic Test - 2 | 1) Datamaination and the demaits |
| Jan+ Feb+ Mar | 22 + 21 + 10 =53 | 1 - GRAVITATION- REVISION Introduction of Gravitation, Universal Law of Gravitation, Importance of the Universal Law of Gravitation, Free Fall, To Calculate the value of g, Motion of Objects Under the Influence of Gravitational Force of the Earth, Mass, Weight, Weight of an object on the Moon, Thrust and Pressure, Pressure in Fluids, Buoyancy, Why objects Float or Sink when placed on the surface of water? Archimedes' Principle, Relative Density, | 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 solid when fully immersed in a) Tab water Strongly salty water with the weight of water displaced by it by taking at least two different solids. |
| | | GRAVITATION - EXTRA Kepler's laws of planetary motion, universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy and gravitational potential, escape velocity, orbital velocity of a satellite, Geostationary satellites. 2 - SOUND - REVISION Production of Sound, Propagation of Sound, Sound needs a medium to travel, Sound waves are Longitudinal waves, Characteristics of a Sound wave(frequency, amplitude and speed), Speed of Sound in different medium, Reflection of Sound, Echo, Reverberation, Uses of multiple reflection of sound, Range of Hearing(Sonic, Infrasonic and ultrasonic), Application of Ultrasound, SONAR, Structure of Human Ear. | 1) Verification of the laws of reflection of sound. 2) Determination of the speed of a pulse propagated through a stretched string/slinky(helical spring). |

| 3 - OSCILLATIONS & WAVES - | |
|---|--|
| OSCILLATIONS | |
| Periodic motion - time period, frequency, | |
| displacement as a function of time, periodic | |
| functions. Simple harmonic motion (S.H.M) and its | |
| equation; phase; oscillations of a loaded spring- | |
| restoring force and force constant; energy in S.H.M. | |
| Kinetic and potential energies; simple pendulum | |
| derivation of expression for its time period. Free, | |
| forced and damped oscillations (qualitative ideas | |
| only), resonance. | |
| WAVES- | |
| Wave motion: Transverse and longitudinal waves, | |
| speed of travelling wave, displacement relation for a | |
| progressive wave, principle of superposition of | |
| waves, reflection of waves, standing waves in | |
| strings and organ pipes, fundamental mode and | |
| harmonics, Beats, Doppler effect. | |
| Annual Exam | |

Jungle Dhusar, Pipraich Road, Gorakhpur

Class : IX

Subject - Chemistry (Session 2020-21)

| Month | No. of W.Days | Chanpter Name | |
|---------------|--|--|--|
| April+May+Jun | 10+23+10 | Matter in Our Surrounding | |
| | | Periodic Test - 1 | |
| July+Aug | 22+20 | Is Matter Around us Pure | |
| | | Half Yearly | |
| Sept+Oct+Nov | 25+22+18 | Atoms and molecules | |
| | | Periodic Test - 2 | |
| Dec+Jan+Feb | 23+22+21 | Structure of atom | |
| | | Annual Exam | |
| | | Activity | |
| Apr+May+Jun | demonstrated) | Activity melting and boiling point of ice(to be discussed in the class only & not to be e components of a mixture of sand, common salt and ammonium chloride by | |
| July+Aug | 1. To prepare: a) Mixture b) Compound using iron fillings and sulphur powder 1. To prepare: a) True solution of common salt, sugar and alum. b) Suspension of soil, chalk powder and fine sand in water. c) A colloidal of starch in water | | |
| Sep+Oct+Nov | Verification of la | w of consservation of mass. | |

Jungle Dhusar, Pipraich Road, Gorakhpur

Class : IX

Subject - Biology (Session 2020-21)

| Month | No. of W.Days | Topic/Chapter | Activity | | |
|----------|---------------|---|---------------------------------|--|--|
| April | 10 | Cell: The Fundamental Unit of Life (Revision) Introduction, Types, Cell. Organells etc. | Slide of onion peel. | | |
| May | 23 | Tissue : Plant & Animal (Revision) | Osmosis in Resin | | |
| June | 10 | Why do we fall ill (Revision) | Plant & Animal Tissue | | |
| | | Periodic Test - 1 | | | |
| July+Aug | 22+20 | Diversity in Living Organism Living World, Biological Plassicification, Plant & Animal Kingdom | Features of Mono & Dicot Plants | | |
| | | Half Yearly Exam | | | |
| Sept | 25 | Heredity & Evolution : Genetics, Mendelism, Mendel's Principle of Inheritance, Lamarkism Darwisism etc. | Food sample test for starch & | | |
| Oct | 10 | Improvement in Food Resources (Revision) | Adulteration | | |
| Oct+Nov | 10+18 | Control & Coordination : Introduction, Nerves & its types, Human brain, Spinal chord etc. | | | |
| | | Periodic Test - 2 | | | |
| Dec | 10 | Natural Resources (Revision) | | | |
| Dec+Jan | 13+22 | Biodiversity & Conservation | | | |
| Feb | 21 | Revision | | | |
| March | Annual Exam | | | | |

Jungle Dhusar, Pipraich Road, Gorakhpur

Class : IX

Subject - Mathematics (Session 2020-21)

| Month | No. of W.Days | Required Period | Chanpter Name |
|-----------|---------------|-----------------|-------------------------------------|
| April | 10 | 6 | Number system |
| трт | 10 | 7 | Polynomials |
| May | 23 | 10 | Quadratic equations |
| iviay | 23 | 9 | Straight Line |
| June | 10 | 6 | Vectors |
| June | 10 | 5 | Three Dimensional Geometry |
| | | Periodic To | est - 1 |
| | | 4 | Revision |
| | | 6 | Exam |
| July | 22 | 5 | Matrices |
| | | 5 | Permutations and combinations |
| | | 3 | Euclid Geometry |
| | | 4 | Lines and Angles |
| August | 20 | 6 | Triangle |
| August | 20 | 4 | Heron's Formula |
| | | 5 | Trigonometry |
| | | Half Yearly | Exam |
| | 25 | 6 | Revision |
| September | | 7 | Exam |
| September | | 5 | Complex Numbers |
| | | 6 | Linear Equations of two variables |
| | | 6 | progression |
| October | 22 | 6 | Algebraic inequalities |
| October | 22 | 5 | Modulus and logarithmic equations |
| | | 10 | Circle |
| November | 18 | 6 | Quadrilaterals |
| November | 10 | 8 | Areas of Parallelogram and triangle |
| | | Periodic To | est - 2 |
| | | 3 | Revision |
| December | 23 | 6 | Exam |
| December | 23 | 5 | Construction |
| | | 9 | Surface Area and Volume |
| | | 6 | Statistics |
| Jan | າາ | 5 | Probability |
| Jan | 22 | 4 | Area Related to Circle |
| | | 6 | Limits |
| | | 6 | Derivatives |
| February | 21 | 6 | Indefinite Integration |
| | | | revision |
| March | | Ann | uual Exam |

Jungle Dhusar, Pipraich Road, Gorakhpur

Class : IX

Subject - Hindi (Session 2020-21)

| ekg | dk; 1 fnol | f{kfrt | —frdk 0; kdj.k | | | | |
|-------------|-------------------|--|---------------------|------------------------------|--|--|--|
| अप्रैल | 10 | सूरदास के पद | _ | पत्र लेखन | | | |
| मई | 23 | राम लक्ष्मण परशुराम संवाद | माता का अँचल | वाच्य | | | |
| जून | 10 | नेता जी का चश्मा | - | पुनरावृत्ति | | | |
| | | Periodic Tes | t - 1 | | | | |
| | 22 | बालगोविन भगत | _ | रचना के आधार पर वाक्य भेद | | | |
| जुलाई | 22 | उत्साह, अट नही | _ | नर पापप गप | | | |
| अगस्त | 20 | लखनवी अंदाज | जॉर्ज पंचम की नाक | विज्ञापन लेखन | | | |
| | Half Yearly Exam | | | | | | |
| सितंबर | 25 | यह दंतुरित मुस्कान, फसल | _ | पद-परिचय | | | |
| अक्टूबर | 22 | मानवीय करूणा की दिव्य चमक, छाया मत छूना | _ | _ | | | |
| नवंबर | 18 | _ | साना साना हाथ जोड़ि | रस | | | |
| | Periodic Test - 2 | | | | | | |
| दिसंबर | 23 | कन्यादान, एक कहानी यह भी | _ | निबंध लेखन | | | |
| जनवरी | 22 | संगतकार, नौबतखाने में इबादत | _ | अभ्यास कार्य | | | |
| फरवरी | 21 | i q ıj kofÙk | | | | | |
| | | Annual Exa | am | | | | |

Jungle Dhusar, Pipraich Road, Gorakhpur

Class : IX

Subject - English (Session 2020-21)

| Month | No. of W.Days | Subject | Chapter | Activity | Life skills/Value imported |
|--------|------------------|---------------|--|----------------------------|---|
| April | 10 | First Flight | Chapter - 1 | Letter writing (Formal) | Never feel alone or depressed |
| • | | Poem | 1. Dust of Snow 2. Fire and Ice | | |
| May | 23 | Supplementary | Chapter - 1, 2 | - | One should not use the resources much |
| wiay | 23 | Grammar | Tense Determiners | | |
| June | 10 | First Flight | Chapter - 2, 3 | Diary Entry | A global icon of peace and tolerance |
| | | | Periodic Test - | 1 | |
| | | Poem | 3. A Tiger in the Zoo | - | We should not judge anyone by their plysical appearance. |
| July | 22 | Supplementary | Chapter - 3, 4 | | |
| | | Grammar | Article Modals | | |
| | | First Flight | Chapter - 4, 5 | Story writing | Have the courage to be yourself |
| August | 20 | Poem | 4. How to tell wild Animals | | |
| | | | Half Yearly Exa | am | |
| Sept | 25 | Supplementary | Chapter - 5, 6 | Letter writing (Informal) | Selfish, motive or personal gains |
| Бері | | Grammar | Conjunction Voice, Preposition | | |
| | | First Flight | Chapter - 6, 7 | Article writing | Give value to inner beauty |
| Oct | 22 | Poem | 5. Animals6. The Ball Poem | | |
| Nov | 18 | Supplementary | Chapter - 7, 8 | Paragraph writing | Be happy with whatever you have. Appearances are often deceptive. |
| | | Grammar | Voice, Narration | | |
| | T | _ | Periodic Test - | 2 | |
| | | First Flight | Chapter - 8, 9 | - | - |
| Dec | 23 | Poem | 7. The Trees 8. Fog | | |
| Jan | | First Flight | Chapter - 10, 11 | Letter writing (Formal) | Nobody is perfect, external beauty is not everything |
| | 22 | Poem | 9. The Tale of Custard the Dragon 10. For Anne Gregory | | |
| | | Supplementary | Chapter - 9, 10 | | |
| Feb | 21 | | Revision | | |
| March | | | Annual 1 | Exam | |

Jungle Dhusar, Pipraich Road, Gorakhpur

Class : IX

Subject - Social Science (Session 2020-21)

| Month | No. of W.Days | Subject | Chapter/Topic | |
|--------|---------------|---------|--|---|
| | | Civics | Power Sharing: Belgium and Srilankan case study, Need for Power | |
| | | Civics | Sharing, Prudential and moral reasons | |
| | | | Silk route, Disease and conquest, Indentured Labour, African Economy, | |
| April | 10 | | Cattle plague | |
| 1 | | | Major flows, Global Agricultural Economy, Balance of Trade, | |
| | | | Decolonisation, IMF & World Bank | |
| | | | Depression and its impact on India & World, MNCs & China, Destruction of US Economy | |
| | | Civics | Power Sharing (conti): Forms of Power Sharing | |
| | | | Development : What is development, Different people, Different Goods, | |
|) / | 22 | Eco | Mixed goals | |
| May | 23 | | Resources : Resources, its classification, Resource Development, Resource | |
| | | Geo | Planning, Land as a resource, Land use pattern, Classification of soil, Soil | |
| | | | conversation | |
| | | Eco | Development (conti) : Comparision between countries, World bank | |
| | | | Criteria, Use of Average Income and its Limitations | |
| T | 10 | | Print Culture: Early print technology. Arrival of Print to Europe, Changes | |
| June | 10 | His | in print technology, Reading Mania, Protestant Reformation, Print culture and French Revolution, Print Culture and Social Reform (Muslims-Dalits), | |
| | | ПIS | Age of Manu Scripts, Print comes to India, WOmen & Print culture, Print & | |
| | | | Censprship | |
| | | | Periodic Test - 1 | |
| | | Eco | Development (conti) : UNDP criteria for comparision, Sustainability of | |
| | 22 | | development | |
| July | | G: : | Federalism : What is federal system?, Features of federalism, Difference | |
| | | Civics | between unitary and federal form of govt, Division of powers in different level, Two router of federation | |
| | | | level, I wo fouter of federation | |
| | | | Agriculture: Cropping seasons of India, Types of Farming, Major Problems | |
| | | Geo | of Indian Farmers, Technologial & Institutional Reforms, Major Crops of | |
| | | | India Rice, Weat, Pulases, Sugarcane, Jute, Cotton, Food security | |
| | | | Federalism (conti): How federalism is practised in India?, Linguistic | |
| | | Civics | state policy, Language Policy, Centre state relation, Decentralisation | |
| | | | Sectors of Indian Economy: Three sectors of Economy in India, | |
| | | Eco | Interdependence of Sectors | |
| | | | • | |
| August | 20 | | Nationalism in India: Meaning of Nationalism, Three early movement of | |
| | | | Mahatma Gandhi in India, Idea of Satya Graha, Rowlatt Act, Non-co- | |
| | | His | operation movement, Jalianwala Bagh Incident, Khilafat movement, Limits of Non-co-operation movement, Movment in Towns, Villages, Awadh Kisan | |
| | | l H | 1115 | Sabha, Swaraj in Plantation, Round table conference Salt march, Great |
| | | | Depression and National Movement and Peasant, Industrials, Trible people | |
| | | | women, Symbols & Icons and its role in national movement | |
| | | | Half Vaarly Evam | |
| | | | Half Yearly Exam | |

| March | | | Annual Exam |
|-------|----|--------|--|
| Feb | 21 | Civics | Out comes of Democracy : Political, Social and Economical outcomes |
| Eab | 21 | Eco | Globalisation (conti): WTO and its Impact |
| | | Eco | Globalisation: Globalisation and factors responsible for gloalisation, Impact of globalisation in India, Positive/Negative, Role of MNC's |
| Jan | 22 | Civics | Political Parties : Political parties and their component, Functions and Need for political parties, Party system, Differene between national and Regional political parties, Challenges and Reforms of political parties |
| Dec | 23 | Eco | Money and Credit (conti): Role of Banks, Credit and its role for development, Formal and Informal sources of credit, Two situations of credit, SHG's and cooperative societies, Caste system in democratic India, Forms of caste in Politics |
| | | | Periodic Test - 2 |
| | | Geo | Lifelines of Economy : Importance of Economy, Diff moles of Transportations & its classification, Pipelines, Major water ways of India, Major Airports of Inida, Major Sea-ports of India, ONGC & Pawan Hans Services, Health tourism and India, Factors determine the mode of trans ports, Comparision of diff moles of Transports |
| Nov | 18 | His | Nationalsism in Europe: Rise of Nationalism in Europe, French revolution and Nation, Autocracy and middle class, Meaning of Liberalism of diff sections, New conservation, Age of Romanticism, Revalt in Europe, Unification of Germany & Italy, Visualising of Nation |
| | | Eco | Money and Credit: Money as a medium of exchnage, Forms of Money, Uses of money |
| | | Civics | Gender, Religion and Caste (conti): Religion and communalism, Communalism and Politics, India a secular state |
| | | Geo | Manufacturing Industries: Importance of manufacturing, Location of industry, Classification of industry, Jute industry, Cotton industry, Cement industry, Automobile industry, I.T. industry, Industrial Pollution, NTPC |
| Oct | 22 | Civics | Gender, Religion and Caste: Gender based discrimination, Suffrage and Feminist movements, Steps for women empowerment, Their political representation |
| | | Eco | Sectors of Indian Economy (conti) : Difference between organised and unorganised sectors, Difference between Public and Private sectors. |
| Sept | 25 | Geo | Mineral & Energy Resources: Meaning of mineral and ore, Mode of occurance, Classification of minerals, Deposists of Iron, Coal, Petrol, Copper, Aluminium (Bauxite), Hazards of mining, Rathole mining, H.V.J pipeline |
| | | Eco | Sectors of Indian Economy (conti): Comparision between the sectors (GDP), Fertiary sector the most Important sector, Primary sector and types of unemployment, MNREGA (2005) |