

DRONACHARYA PUBLIC SCHOOL, MUBARIKPUR**SYLLABUS -2024-25****CLASS- 12TH SUBJECT: PHYSICS****. Book:- New simplified physics****Publisher :- DHANPAT RAI & Co**

| Months | Syllabus | Experiments/ Activities |
|---------------|--|---|
| March | CH-1; Electric charge and field | |
| April | CH:-2; Electrostatic potential and capacitance CH:-3; Current Electricity | To find resistance of a given wire / standard resistor using metre bridge |
| May | CH:-4; Moving charges and Magnetism | To verify the laws of combination of resistances using a metre bridge |
| June | CH:-5; Magnetism and matter | To determine resistance of a galvanometer by half-deflection method and to find its figure of merit. |
| July | CH:- 6; Electromagnetic Induction CH:-7; Alternating Current CH:-8; Electromagnetic waves | To determine resistivity of two / three wires by plotting a graph for potential difference versus current. |
| August | CH:-11; Dual Nature of matter and radiation CH:- 12; Atoms CH:- 13; Nuclei CH:- 14; Semiconductor | To draw the I-V characteristic curve for a p-n junction diode in forward and reverse bias. |
| September | CH:- 9; Ray Optics and Optical Instruments | To determine refractive index of a glass slab using a travelling microscope |
| October | CH:- 10; Wave Optics Revision of CH:- 1,2,and 3 | To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation. |
| November | Revision of CH:- 4,5,6,7,8 and 11 | To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source. To assemble the components of a given electrical circuit |
| December | Revision of CH:- 12,13,14,9 and 10 | |
| January | Revision of complete Syllabus | |
| February | Revision | |

DRONACHARYA PUBLIC SCHOOL, MUBARIKPUR
SYLLABUS -2024-25
CLASS- 12th SUBJECT: BIOLOGY

Book : NCERT

| Months | Syllabus | Experiments/ Activities |
|---------------|---|---|
| April | Ch-1. Sexual Reproduction in Flowering Plants Ch-2. Human Reproduction Ch-3. Reproductive Health | 1. Prepare a temporary mount to observe pollen germination. |
| May | Ch-4. Principle of Inheritance and Variations Ch-5. Molecular basis of Inheritance Ch-6. Evolution | 2. Study the plant population density by quadrat method. 3. Study the plant population frequency by quadrat method. |
| June | Revision of Unit-1 & Unit-2 Summer Vacation | |
| July | Ch-7. Human Health and Disease Ch-8. Microbes in Human Welfare Ch-9. Biotechnology: Principle and Processes | 4. Prepare a temporary mount of onion root tip to study mitosis |
| August | Ch-10. Biotechnology and its Applications Ch-11. Organism and Population Ch-12. Ecology Ch-13. Biodiversity and its Conservation | 5. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc. |
| September | Term-1 Exams | |
| October | Revision of Unit-3 Investigatory Project Work | 6. Flowers adapted to pollination by different agencies (wind, insects, birds). |
| November | Revision of Unit-4 and Unit-5 | 7. Pollen germination on stigma through a permanent slide or scanning electron micrograph. 8. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice). |
| December | Revision for Exams | |
| January | Revision of complete Syllabus | |
| February | Revision of complete Syllabus | |

DRONACHARYA PUBLIC SCHOOL, MUBARIKPUR
SYLLABUS -2024-25
CLASS- 12TH SUBJECT: CHEMISTRY

Book:- NCERT

| Months | Syllabus | Experiments/ Activities |
|---------------|--|-----------------------------------|
| March | CH-2, Solutions | |
| April | CH:-3, Electrochemistry CH:4- Chemical Kinetics | Preparation of double salts. |
| May | CH:-6: d and f block elements | Preparation of organic compounds. |
| June | CH:-7 : Coordination Compounds CH : 8- Haloalkanes and Haloarenes | Test for functional groups. |
| July | CH:- 9: Alcohols Phenols and Ethers | Titration experiments. |
| August | CH:-10; Aldehydes , Ketones and carboxylic acids | Qualitative Analysis |
| September | CH 11:- : Organic compounds containing nitrogen CH 12: Biomolecules | Qualitative analysis |
| October | REVISION OF PHYSICAL CHEMISTRY | Project Work |
| November | REVISION OF INORGANIC CHEMISTRY | |
| December | REVISION OF ORGANIC CHEMISTRY | |
| January | Revision of complete Syllabus | |
| February | Revision of complete Syllabus | |

DRONACHARYA PUBLIC SCHOOL, MUBARIKPUR
SYLLABUS -2024-25
CLASS- 12th, SUBJECT: MATHEMATICS

Books- RS Aggarwal, NCERT , Ncert examples

| Months | Topic | Activity |
|-----------|--|--|
| April | 1. Matrices 2. Determinants 3. Continuity and differentiability | To integrated matrix with real life through gaming situation |
| May | 4. Application of derivatives 5. Relation and function | Understand the concept of decreasing and increasing function |
| June | 6. Inverse trigonometry function Summer vacation | Take a page whose length and breadth are given there taking a square from its corner and make a cuboid, there find its vol & max it. |
| July | 7. Indefinite integration 8. Definite integration | — |
| August | 9. Application of integration 10. Differential equations 11. Vectors | In vectors find the location of sports room |
| September | 12. 3- dimensions geometry 13. LPP | Distance of point from origin |
| October | 14. Probability Practice of previous year questions | Cards activity Bayer's theorem |
| November | Revision | |
| December | Revision | |
| January | Revision | |
| February | Final Exams | |

DRONACHARYA PUBLIC SCHOOL, MUBARIKPUR
SYLLABUS -2024-25
CLASS- 12th, SUBJECT: ENGLISH

| Month | Literature | Writing | Reading | Activity |
|-----------|--|---|----------------------|--|
| April | Lesson 1(The Last Lesson) Lesson -2 lost Spring Poem -1 My Mother at sixty six Lesson 3. Deep Water Poem – 2 Keeping Quiet | Notice writing | | <ul style="list-style-type: none"> · Historical content exploration · Role play · Discussion: importance of elder members in a family · GD: Impact of poverty & societal Inequality on childhood · Debate: Role of challenges in shaping characters & feature success |
| May | 4. The Rattrap 5 Indigo 6 Poet and pancakes Poem-3 A Thing of Beauty | Letter to the Editor | Unseen comprehension | <ul style="list-style-type: none"> · Role play & discussion on themes of trust and kindness · Ethical dilemma · Research project: Indigo plantation system · Reflective writing on beauty of natural surroundings |
| June | 7. The Interview Poem-4 Summer vacation | | | |
| July | A Roadside Stand Lesson-8 Going places Poem-5 Aunt Jennifer’s Tigers Lesson -1 The Third level | Job Application Article Writing | Unseen comprehension | <ul style="list-style-type: none"> · Field trip observation · Discussion on gender & societal constraints · Escapism & Alternate reality/ time travel · Critical Analysis: Analyze the social and economic issues highlighted in the story, such as poverty and resilience. |
| August | Lesson -2 Tiger King 3. Journey to the end of the earth 4 The Enemy | Invitation and Reply Report Writing | | <ul style="list-style-type: none"> · Role play · Multimedia showcasing geographical aspects of Antarctica · Debate: ‘ethics of war & humanisation of enemy’ · Essay on the complexities of human relationships and reconciliation in times of conflict. |
| September | 5 On The Face of It 6 Memories of Childhood | Article and Report writing | | <ul style="list-style-type: none"> · Role play & discussion on isolation, prejudice & friendship · Comparative dynamics of Mr. Lamb & Derry |

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|----------|---|---------------------------|-------------------------|--|
| | | | | . Debate :the societal attitudes towards physical appearance and disability as portrayed in the narrative. · Personal memories writing exercise |
| October | Revision Lesson -1,2 &3 (Flamingo) Poem -1&2 | Notice & Advertisement | Unseen comprehension | |
| November | Revision Lesson -4,5&6 Poem -3,4&5 | | | |
| December | Revision Lesson -6 ,7&8 (Flamingo) Revision Lesson -1,2 (vistas) | | | |
| JANUARY | Revision Lesson -3,4,5,6&7 (vistas) | | | |
| February | Revision All syllabus | | | |

DRONACHARYA PUBLIC SCHOOL, MUBARIKPUR
SYLLABUS -2024-25
CLASS- 12TH SUBJECT: MUSIC

| मास | खंड | वषय | क्रियाकलाप |
|---------|-----------------------------|---|---------------------------|
| अप्रैल | खंड 1 परिभाषा | अलंकार कण मीड खटका गमक ग्राम मूर्छना आलाप तान मुर्की | आलाप, तान |
| मई | खंड 2 ग्रंथ | संगीत रत्नाकर संगीत पारिजात | - |
| जून | ग्रीष्मकालीन अवकाश | | |
| जुलाई | खंड 3 | तानपुरा का मलान रागों का समय सद्धांत जीवन परिचय (3) | - |
| अगस्त | खंड 4 | रागों का परिचय (3) ताल (3) | राग: भैरवी, मालकौश |
| सितंबर | खंड 5 | स्वर ल प : बड़ा ख्याल, छोटा ख्याल तराना, धमार | छोटा ख्याल तराना, धमार |
| अक्टूबर | दोहराई | पूरा पाठ्यक्रम | |
| नवंबर | अर्धवार्षिक परीक्षा+ दोहराई | | |
| दिसंबर | दोहराई | | |
| जनवरी | दोहराई | | |
| फरवरी | वार्षिक परीक्षा | | |

DRONACHARYA PUBLIC SCHOOL, MUBARIKPUR
SYLLABUS -2024-25
CLASS- 12TH SUBJECT: PHYSICAL EDUCATION

| मास | वषय | क्रियाकलाप |
|---------|---|---|
| अप्रैल | 1.खेल आयोजन का प्रबंधन | ट्रेक व फील्ड मीट आयोजन |
| मई | 2.खेलों में बच्चे तथा महिलाएं. 3. योग जीवन शैली से संबंधित रोग के बचावात्मक उपाय के रूप में. 4. विशेष आवश्यकता वाले बच्चों के लिए शारीरिक शिक्षा एवं खेल. | आसान संबंधी सामान्य योग व प्राणायाम |
| जून | 5.खेल तथा पोषण | संतुलित आहार को बढ़ावा देने के बारे में |
| जून | ग्रीष्मकालीन अवकाश | |
| जुलाई | 6.खेलों में परीक्षण तथा मापन 7.शारीरिक क्रिया वज्ञान तथा खेलों में चोटें 8.जीव यांत्रिकी एवं खेलकूद | विद्यालय में खेले जाने वाले इंडिया के परीक्षण |
| अगस्त | 9.मनो वज्ञान तथा खेल 10.खेलों में प्रशिक्षण . | मेक्रो मैसो और माइक्रो चक्र प्रतिनिधि |
| सितंबर | आरोह भाग-1 अभिव्यक्ति माध्यम | |
| अक्टूबर | अर्धवार्षिक परीक्षा+ दोहराई | |
| नवंबर | आरोह भाग-1 अभिव्यक्ति माध्यम | |
| दिसंबर | | दोहराई |
| जनवरी | | दोहराई |
| फरवरी | | वार्षिक परीक्षा |