



NILGIRI HILLS PUBLIC SCHOOL
ANNUAL SYLLABUS (2023-24)
CLASS- X

ENGLISH LANGUAGE & LITERATURE

Month	First Flight	Footprints Without Feet	Writing & Grammar
April	<ul style="list-style-type: none"> • CH-1 A Letter To God • CH-2 Nelson Mandels-Long walk To Freedom • P-1 Dust Of Snow • P-2 Fire And Ice 	<ul style="list-style-type: none"> • CH-1 Triumph Of Surgery 	<ul style="list-style-type: none"> Revision Of Previous Class Sentences Language lab- Sentences
May	<ul style="list-style-type: none"> • CH-3 Two Stories About Flying • P-3 A Tiger in the Zoo • P-4 How To Tell Wild Animals 	<ul style="list-style-type: none"> • CH-2 The Thief's Story 	<ul style="list-style-type: none"> Tenses Language Lab- Tenses
June	-	-	-
July	<ul style="list-style-type: none"> • CH -4 From The Diary Of Anne Frank • CH-5 Glimpses Of India • P-5 The Ball Poem 	<ul style="list-style-type: none"> • CH-3 The Midnight Visitor 	<ul style="list-style-type: none"> Tenses (Continued) Letter Of Enquiry
<ul style="list-style-type: none"> • Periodic Test1- 14/07/23 • Syllabus- A Letter to God, Nelson Mandela -A Long Walk To Freedom, Thief's Story, Fire And Ice ,Letter of Enquiry, Integrated Grammar 			
August	<ul style="list-style-type: none"> • CH-6 Mijbil The Otter • CH-7 Madam Rides The Bus • P-6 Amanda • P-7 The Tree 	<ul style="list-style-type: none"> • CH-4 A Question Of Trust • CH-5 Footprints Without Feet 	<ul style="list-style-type: none"> • Language Lab- Modals • Letter Of Placing Order
September	<ul style="list-style-type: none"> • Ch-8 The Sermon At Benaras • P-8 Fog 	<ul style="list-style-type: none"> • CH-6 The Making Of Scientist • CH-7 The Necklace 	<ul style="list-style-type: none"> • Subject-Verb Concord • Letter Of Complaint • ASL
<ul style="list-style-type: none"> • Term I Examination-22/09/23 Syllabus- Chapters covered till September as mentioned above. 			

October	<ul style="list-style-type: none"> • CH-9 The Proposal • P-9 The Tale Of Custard The Dragon • P-10 For Anne Gregory 	<ul style="list-style-type: none"> • CH-9 Bholi • CH-10 The Book That Saved The Earth 	<ul style="list-style-type: none"> • Direct-Indirect/ Reported Speech • Language Lab-Determiners • Analytical Paragraph
Periodic Test-II 20/10/23 Syllabus: Madam Rides The Bus, The Sermon at Beneras, Integrated Grammar, Letter writing			
November	Revision	<ul style="list-style-type: none"> • Recapitulation- Ch- 6,7 	<ul style="list-style-type: none"> • ASL
<ul style="list-style-type: none"> • Pre Board I Examination -20/11/23 • Syllabus- Full Syllabus 			

<ul style="list-style-type: none"> • December- Recapitulation- Ch -8,9
<ul style="list-style-type: none"> • Pre Board II Examination-28/12/23 • Syllabus – Full Syllabus
<ul style="list-style-type: none"> • January-Reinforcement-Letter of placing order, enquiry, Complaint,Integrated Grammar • February – Reinforcement – Integrated Grammar, Analytical Paragraph, Ch-11 (First Flight)

SCIENCE

• April

- **Chemistry- Ch-1 Chemical Equations and Reactions**
- **Physics- Ch -10 Light (Reflection and Refraction)**
- **Lab Manual activities**
 1. Performing and observing the following reactions and classify them into:
 - **A. Combination reaction**
 - **B. Decomposition reaction**
 - **C. Displacement reaction**
 - **D. Double displacement reaction**
 - (i) Action of water on quicklime
 - (ii) Action of heat on ferrous sulphate crystals
 - (iii) Iron nails kept in copper sulphate solution
 - (iv) Reaction between sodium sulphate and barium chloride solutions
 - Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions:
 - i) ZnSO₄(aq)
 - ii) FeSO₄(aq)
 - iii) CuSO₄(aq)
 - iv) Al₂ (SO₄)₃(aq)
 - Arranging Zn, Fe, Cu and Al (metals) in decreasing order of reactivity based on the above result.
- **Biology:** ch- Life processes, Nutrition, Respiration, Transportation
- **Practical work-** Preparing a temporary mount of a leaf peel to show stomata.

May

- **Physics: Ch -11 Human Eye and the Colourful World (excluding Colour of the Sun at Sunrise and Sunset)**
- **Chemistry Ch-2 Acids Bases and Salts**

Lab Manual activities

- Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.

Biology: ch-Life processes, Transportation and Excretion; ch-Control and coordination, Trophic movements

Practical work- Experimentally show that carbon dioxide is given out during respiration.

July

Physics- Ch-12 Electricity

Chemistry Ch -3 Metals and Non Metals

Lab Manual activities °

- **1.A. Finding the pH of the following samples by using pH paper/universal indicator:**
- (i) Dilute Hydrochloric Acid
- (ii) Dilute NaOH solution
- (iii) Dilute Ethanoic Acid solution
- (iv) Lemon juice
- (v) Water
- (vi) Dilute Hydrogen Carbonate solution
- **B. Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with:**
- a) Litmus solution (Blue/Red)
- b) Zinc metal
- c) Solid sodium carbonate

2. Tracing the path of the rays of light through a glass prism.

Biology : ch- Control and coordination, Trophic movements,

Introduction to plant hormones

Perioic Test I-(25/07/23)

Chapters-Ch-1, 6, 10 (Syllabus)

August

- **Physics – Ch -13 Magnetic Effect of Electric Current**
- **Chemistry Ch-4 Carbon And its Compunds**
- **Lab Manual activities**

1.Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plotting a graph between V and I.

Biology: ch- Control and coordination, Nervous system, voluntary, involuntary and reflex actions, animal hormones; ch-Reproduction, Sexual and asexual, Reproductive Health.

Practical work- Studying (a) binary fission in Amoeba, and (b) budding in yeast and Hydra with the help of prepared slides.

September

Biology : ch- Heredity and Evolution, Mendel's contribution, Sex Determination (TOPICS EXCLUDED - EVOLUTION; EVOLUTION AND CLASSIFICATION AND

EVOLUTION SHOULD NOT BE EQUATED WITH PROGRESS)

Practical work- Identification of the different parts of an embryo of a dicot seed (Pea, gram or red kidney bean).

- Revision of Half Yearly Syllabus
- Half Yearly Exam (30/09/23)
- **Half Yearly Syllabus**
- **Ch -1,2,3,6 , 9,10,11,12**
- **October**

Chemistry- Ch-15 Our Environment

- Chemistry - Ch 16 Sustainable Management of Natural Resources
- **Lab manual activities**
- **2. Determination of the equivalent resistance of two resistors when connected in series and parallel.**

Biology: ch- Heredity and Evolution, Sex Determination; Ch-Our Environment, Eco-system, Environmental problems, Ozone depletion, waste production and

their solutions. Biodegradable and non-biodegradable substances.

Periodic Test II- 30/10/2023

- **Periodic Test 2 ; Ch -4,7,13**
- **November Pre Board -1 Full Syllabus**
- **Pre Board I- 25/11/23**
- **December Pre Board-II(Full Syllabus)**
- **Pre Board II- 08/01/24**

हिंदी

अप्रैल -	क्षितिज	पाठ 1 पाठ 10	सूरदास के पद नेताजी का चश्मा
मई	- कृतिका	पाठ 1	माता का अंचल
व्याकरण		रचना के आधार पर वाक्य भेद, विज्ञापन	
जुलाई -	क्षितिज	पाठ 2 पाठ 4 पाठ 11 पाठ 12	राम- लक्ष्मण-परशुराम संवाद आत्मकथ्य बालगोविन भगत लखनवी अंदाज
	व्याकरण	वाच्य	
आवधिक परीक्षा - I (21/07/23)	क्षितिज	पाठ 1 पाठ 11	सूरदास के पद बालगोविन भगत
	व्याकरण	वाच्य	
अगस्त -	क्षितिज	पाठ 5 पाठ 14	उत्साह और अट नहीं रही है एक कहानी यह भी
	कृतिका	पाठ 3	साना साना हाथ जोड़ि
	व्याकरण	पद-परिचय	
सितम्बर -	कृतिका व्याकरण	पाठ 5	मैं क्यों लिखता हूँ स्ववृत्त लेखन, ई-मेल लेखन
अर्द्धवार्षिक परीक्षा (18/09/23)	क्षितिज कृतिका व्याकरण	पाठ 1, 2, 4, 5, 10 से 12, 14 पाठ 1, 3, 5	रचना के आधार पर वाक्य भेद, पद-परिचय, वाच्य, विज्ञापन, अपठित गदयांश, अपठित काव्यांश, अनुच्छेद लेखन , पत्र लेखन,स्ववृत्त लेखन, ई-मेल लेखन
अक्टूबर	क्षितिज	पाठ 6 पाठ 9 पाठ 16	यह दंतुरित मुस्कान और फसल संगतकार नौबतखाने में इबादत
	व्याकरण	अलंकार (शब्दालंकार - श्लेष) (अर्धालंकार - उत्प्रेक्षा, अतिशयोक्ति, मानवीकरण), संदेश लेखन	
आवधिक परीक्षा - II	क्षितिज	पाठ 6, 9, 16	

(27/10/23)	व्याकरण	अलंकार, संदेश लेखन
नवंबर	क्षितिज	पाठ 17 संस्कृति
पुनरावृत्ति -	क्षितिज -	पाठ 2 (राम-लक्ष्मण-परशुराम संवाद),
		पाठ 4 (आत्मकथ्य),
		पाठ 16 (नौबतखाने में इबादत) / व्याकरण - स्ववृत्त लेखन)

प्री बोर्ड - I (28/11/23) पूर्ण पाठ्यक्रम

दिसंबर	क्षितिज -	पाठ 9 (संगतकार)
पुनरावृत्ति -	व्याकरण -	रचना के आधार पर वाक्य भेद / कृतिका- पाठ 5 (मैं क्यों लिखता हूँ)
		प्री बोर्ड - II (30/12/23) पूर्ण पाठ्यक्रम

जनवरी	क्षितिज -	पाठ 17 संस्कृति / व्याकरण - ई-मेल लेखन
पुनरावृत्ति		

•नोट- निम्नलिखित पाठों से प्रश्न नहीं पूछे जाएंगे -

क्षितिज	काव्य खंड	पाठ 3 सवैया, कवित
		पाठ 7 छाया मत चूना
		पाठ 8 कन्यादान
	गद्य खंड	पाठ 13 मानवीय करुणा की दिव्य चमक
		पाठ 15 स्त्री शिक्षा के विरोधी कुतर्कों का खंडन
कृतिका		पाठ 2 जार्ज पंचम की नाक
		पाठ 4 एही ठैयाँ झुलनी हेरानी हो रामा

MATHEMATICS

- April: Ch- 1 Real Numbers
Ch-2 Polynomial

Activity 1: To obtain the conditions for consistency of a system of linear equations in two variables by graphical method.

- May: Ch-3 Pair of Linear Equations In two variables.

Activity 2 : To verify that the sum of first n natural number is $n(n+1)/2$ i.e
 $\sum n = n(n+1)/2$.

- July: Ch-4 Quadratic Equation
Ch-5 Arithmetic Progression

Activity 3: To verify the basic Proportionality theorem by using parallel lines board, triangle cut outs.

Periodic test -1 Syllabus – Ch- 2 and 3 (18/07/2023)

- August: Ch-7 Coordinate Geometry
Ch-6 Triangles
Ch- 8 Introduction To Trigonometry

Activity 4. To verify the Pythagoras theorem by the method of paper folding, cutting and pasting.

- **September:** Ch 9 Some Applications Of Trigonometry
Ch-10 Circles

Activity 5: To get familiar with the idea of probability of an event through a double color cards experiment.

Half yearly examination Ch - (1, 2, 3, 4, 5, 7, 8, 9 and 10) (20/09/2023)

- **October:**
 - Ch-12 Area related to Circles
 - Ch - 13 Surface areas and Volumes
 - Ch-14 Statistics

Activity 6: To verify that the angles in a same segment of a circle are equal, using the method of paper cutting, pasting and folding.

Periodic test- II Syllabus- Ch 9, 10 and 12 (16/10/23)

- **November:** Ch-15 Probability

Activity 7: To get the formula for the volume of the right circular cylinder.

Activity 8: To find the formula for the lateral surface area and total surface area of a right circular cone by activity method.

Pre board 1 (Full syllabus) 22/11/23

- **December:** Pre board 2(Full syllabus)
- **January:** Recapitulation of polynomials, quadratic equation, triangles and trigonometric identities.
- **February:** Recapitulation of circles, height and distance, area related to circles, surface area and volume, probability and statistics.

SOCIAL SCIENCE

SOCIAL SCIENCE

April

History :Theme 1 Rise of Nationalism in Europe

Geography : Chapter 1 - Resources and development

Map work: Resources and Development (Identification only)

Political Science: Ch-1 Power Sharing

(Activity - Project Work on power sharing in Belgium and Sri Lanka)

(History activity/discussion - Project work on Rise of Nationalism in Europe- Power point Presentation)

Economics : Ch-1 Development (Topic: what development promises- different people, different goals, Income and other goals, National development, How to compare different countries and states... to be continued)

May

History :Theme 1 Rise of Nationalism in Europe

Geography : Chapter 1 - Resources and Development

Map work: Major soil Types in India (Identification only)

Political Science: Ch-2- Federalism

(Activity/Discussion- Find out about the local government in the village or town you live in)

Economics : ch-1 Development (Income and other criterion, public facilities, sustainability of development)

July

History : Theme 1 Rise of Nationalism in Europe continues

Theme 2 Nationalism in India

Geography : Chapter - 2 Forest and wildlife resources

Map work: Wildlife reserves and national forests

Political Science: Ch-3 Democracy and Diversity (omitted)

Ch-4 Gender, Religion and Caste

(Activity/ Discussion- women's representation in Politics - Panchayati Raj)

(History Activity / Discussion- Project work on Nationalism in India- Power point Presentation)

Economics : CH-2, Sectors of Indian economy (Sectors of Economic activities, Comparing the three sectors, division of sectors)

Periodic Test-1, 28th July 2023

August

History :Theme 3 The making of Global world

Theme 4 The age of Industrialisation

Geography : Chapter 3 - Water resources, Chapter 4 – Agriculture

Map work: Water Resources (Locating and Labelling)

Dams:

Salal

Bhakra Nangal

Tehri

Rana Pratap Sagar

Sardar Sarovar

Hirakud

Nagarjuna Sagar and

Tungabhadra

Map work: Agriculture (Identification only)

Major areas of Rice and Wheat

Largest / Major producer states of Sugarcane, Tea, Coffee, Rubber, Cotton and Jute

Political Science: Ch-5 Popular struggles and Movements(omitted)

Ch-6 Political Parties

Economics : ch-3 Money and credit (Topic : Money as a medium of exchange, Modern forms of money, loan activities of banks, credit creation, formal credit sector and self help group)

(History Activity/discussion- Project work on The making of Global world, The age of Industrialisation- Power Point Presentation)

September

History: Theme 4 The age of Industrialisation continues

Geography : Chapter 5 – Minerals and Energy Resources

Map work: Minerals and Energy Resources

Minerals (Identification only)

Iron Ore mines:

Mayurbhanj,Durg,Bailadila, Bellary, Kudremukh

Coal Mines:

Raniganj, Bokaro,Talcher, Neyveli

Oil Fields:

Digboi,Naharkatia,Mumbai High,Bassein,Kalol,Ankleshwar

Power Plants (Locating and Labelling only)

Thermal:-Namrup ,Singrauli,Ramagundam

Nuclear:-

Narora , Kakrapara , Tarapur,Kalpakkam

Political Science: Ch-6 Political parties continue..

(Activity- Create your own political party)

Economics : CH-4, Globalisation and the Indian Economy (Production across counties, Interlinking Production.. To be continued)

Term-1 Syllabus

History - Theme 1 and Theme 2

Geography – Ch 1 , Ch 2 and Ch 3

Political Science -Ch 1 and Ch 2

Economics - Ch 1 and Ch 2

Term -1 -27.09.2023

October

History: Theme 5 Print culture and the Modern world

Geography : Chapter 6 – Manufacturing industries, Chapter 7 – Lifeline of National Economy

Map work: Manufacturing Industries (Locating and Labelling Only)

Software Technology Parks:

Noida

Gandhinagar

Mumbai

Pune

Hyderabad

Bengaluru

Chennai

Thiruvananthapuram

Map work: Lifelines of National Economy

Major Ports: (Locating and Labelling)

Kandla

Mumbai

Marmagao

New Mangalore

Kochi

Tuticorin

Chennai

Vishakhapatnam

Paradip

Haldia

International Airports:

Amritsar (Raja Sansi – Sri Guru Ram Dass jee)

Delhi (Indira Gandhi)

Mumbai (Chhatrapati Shivaji)

Chennai (Meenam Bakkam)

Kolkata (Netaji Subhash Chandra Bose)

Hyderabad (Rajiv Gandhi)

Political Science: Ch-7 Outcomes of Democracy

Ch-8 Challenges to Democracy (omitted)

Economics : CH - 4 Globalisation.. (foreign trade, WTO, impact of globalisation and its impact)

History Activity/discussion - (Project Activity on Print culture and the Modern world- Power point Presentation)

Periodic Test -II 25.10.2023

NOVEMBER

History: Theme 5 Print Culture and the Modern world continues

History map activity to be done in the middle of the session

(Outline Political Map of India)

Chapter - 2 Nationalism in India – (1918 – 1930) for Locating and Labelling / Identification

1. Indian National Congress Sessions

a. Calcutta (Sep. 1920)

b. Nagpur (Dec. 1920)

c. Madras (1927)

2. Important Centres of Indian National Movement

a. Champaran (Bihar) - Movement of Indigo Planters

b. Kheda (Gujarat) - Peasant Satyagraha

a. Ahmedabad (Gujarat) - Cotton Mill Workers Satyagrah

a. Amritsar (Punjab) - Jallianwala Bagh Incident

e. Chauri Chaura (U.P.) - Calling off the Non-Cooperation Movement

f. Dandi (Gujarat) - Civil Disobedience Movement

Pre-Board I-18.11.2023

INFORMATION TECHNOLOGY

April

Unit-1 Digital Documentation(Advanced)(Part-B) Continue...

Practical- Create the document and apply of following features-Style, Image and Templates ,Headings, Table of Contents and Mail Merge

May

Unit-1 Digital Documentation(Advanced)(Part-B)

Unit-1 Communication Skills (Part-A)

July

Unit-2 Electronic Spreadsheet (Advanced)(Part-B) Continue....

Practical- Prepare a worksheet in calc and use the following features of calc- Consolidating Data, Subtotal, what if Analysis tool, Link data and Spreadsheet , cell reference, Hyperlink and Sharing a document ,Macros

Unit-2 Self Management Skills-II

Ut-1(11/07/23)

Unit-1 Digital Documentation(Advanced)(Part-B) Full unit

Unit-2 Electronic Spreadsheet(Advanced)(Part-B) (Chapter-2)

August

Unit-4 Web Applications and Security(Part-B) Continue

Unit-3 ICT Skills(Part-A)

September

Revsion-Unit-1 ,2 & 3 (Part –A)Unit-1&2 (Part-B)

Term-1(25/9/23)

Unit- Unit-1 Communication Skills (Part-A)

Unit-2 Self Management Skills-II

Unit-3 ICT Skills(Part-A)

Unit-1 Digital Documentation(Advanced)(Part-B)

Unit-2 Electronic Spreadsheet(Advanced)(Part-B)

October

Unit-4 Web Applications and Security(Part-B)

Unit-3 Database Management System(Part-B) Continue

Practical- prepare a records of class X students and save the table By the name students and do the following operations-

Create the table using design View, Delete the record , add new record, use data validation rule, create relationship between two tables, SQL Commands

UT-2(18/10/23)

Unit-4 Web Applications and Security (Part-B)

November

Unit-3 Database Management System(Part-B)

Unit-4 Entrepreneurship Skills-II(Part A)

Unit-5 Green Skills-II(Part-A)

Preboard-I (30/11/23) All Units

December

Preboard-II (26/12/23) All Units

January

Revision-All Units

February

Final Examination

