



**VIDYA NIKETAN (BIRLA PUBLIC SCHOOL), PILANI**

**A Prestigious English Medium Residential School (For Boys)**

*(CBSE Affl. No. 1730008)*

**Estd. 1944**

## English Core

### Objective:

To develop analytical thinking, language skills, and research abilities through an extended English project as per CBSE guidelines.

### Instructions:

1. Choose one topic from the list below.
2. Prepare a detailed project (600–800 words) on A-4 sheets or project paper.
3. Include the following in order:
  - Title Page
  - Certificate
  - Acknowledgement
  - Preface
  - Table of Contents
  - Main Content (with headings and subheadings)
  - Conclusion
  - Bibliography
4. You may include relevant images, facts, or quotes.
5. Handwritten presentation is encouraged.

### Choose any one topic:

- **Influence of Advertisement Language on Teenagers**  
Analyze the kind of language used in advertisements and its effect on teenage perceptions and behavior.
- **Importance of English in the Digital Age**  
Explore how English plays a crucial role in online communication, education, and information sharing.

- Representation of Youth in English Literature

Discuss how teenagers and young adults are portrayed in English novels, short stories, or poetry.

Submission Date: [2nd July 2025]

Evaluation Criteria: Creativity, Content, Language, Presentation, and Originality.

## DATA SCIENCE

### 1. Project 1:

Submit a detailed report on the most critical problems and how Data Science (DS) can assist in addressing those problems. Report should include description of the problem and the proposed way in which AI can solve the problem.

The following topics is:

1. Agriculture in India
2. School Education in India
3. Healthcare in India?

## IP

1. "Python is an interpreted language". What does it mean to you?
2. "Not Strong on Type-binding". What does it mean to you?
3. What is the difference between interactive mode and script mode in python?
4. What are tokens in Python? How many types of tokens allowed in Python?
5. WAP to to obtain three numbers and print their sum?
6. Write a python program to calculate BMI(Body Mass Index) of a person

BMI is a simple calculation using a person's height and weight. The formula is

$BMI = \frac{kg}{m^2}$  where kg is a person's weight in Kilograms and  $m^2$  is their height

7. Write a program to input a value in kilometer and convert it into miles (1km=0.621371 miles)

8. Write a program to input three numbers and swap them as this: 1st number becomes the 2nd number,

2nd number becomes the 3rd number and the 3rd number becomes the first number.

9. What are various categories of software?

10. What are RAM and ROM? How are they alike? How are they different?

## IT

**Solve the worksheet on SQL Commands, provided in your personal mail.**

## PAINTING

This is to inform all painting student of XI to submit Summer Holiday home work practical portfolio latest by after vacation.

The details are as follows:

1. **10 best sketches on** (sketching pad or A5 size art file)
2. **5 Landscape**- 2 on canvas and 3 on paper medium water and, Acrylic colour, black pen
3. **CREATIVE DRAWING OF FAMOUS PERSONALITY** (Portrait/Drawing of your choice) – 1 on A3/A4 size paper (**medium**- Pen Black or any/Pencils/ brushes)
2. **CREATIVITY WITH COLLAGE ART** - (Medium & Material– Colour papers of west Magazines, colour newspapers, glue & Acrylic colour or Digital medium)
3. **CARTOON MAKING** – Current topic (Medium- Pen, pencil, coloured or digital etc.)

After the last date of Homework submission, it will not be acceptable.

**Note:** - Colour with light and shade, proportion, creativity, composition and neatness skills would be seen for final submissions.

- On the back side of the final assignments give details of your name, class, section, subject, topic and the medium.

## **HUMANITIES(GEOGRAPHY)**

### **DO IN GEOGRAPHY REGISTER**

1. Compare the geographical location benefits of India with Nepal and Bhutan. Paste a map for it.
2. Why India should have more than one time zone?
3. Make a Report on “Rising population of India and it’s Impact”.
4. Collect Samples of Soil and Rocks of your area.
5. Write a Report on Indus Water Treaty with Pakistan in latest conditions.

## **HISTORY**

### **1-CLASS XI**

VISIT A NEAR BY HISTORICAL PLACE AND OBSERVE THE SCULPTURES,PILARS,BUILDINGS AND INTERPRET YOUR EXPERIENCE IN YOUR LANGUAGE. STUDENTS ARE REQUESTED TO SUBMIT THE WORK IN THE FORM OF PPT TO THE SUBJECT TEACHER.

# ACCOUNTANCY

## Chapter:

1. Introduction to Accounting
2. Basic Accounting Terms
3. Accounting Equation (basic level)

## 1. Project Work: Source Documents

### Instructions for Students:

Prepare a project file on the topic "Source Documents". This project must be done neatly and in a well-organized manner.

### Project Format:

Front Page (With School Name, Student Name, Class, Title of Project, and Academic Year)

-Index

-Acknowledgement

-Introduction (What are source documents and their importance in accounting)

### Details of the following documents:

1. Cash Memo
2. Cheque
3. Electricity Bill
4. Gas Cylinder Payment Slip
5. Departmental Store Cash Payment Bill

### Paste Originals/Photocopies of each document

**Conclusion** (Summary of learning)

**Bibliography** (Mention sources like textbook, internet, etc.)

### Note:

The project should contain at least 25 pages.

If file pages are unavailable, use a notebook.

Use colored headings and keep it neat and clean.

## 2. Assignment Work: Basic Accounting Terms

Write the meanings of the following terms:

1. Debtors
2. Creditors
3. Drawings
4. Capital
5. Fixed Assets
6. Current Assets
7. Liabilities

### **3. Easy Questions (To be solved in notebook)**

#### **Chapter: Introduction to Accounting**

Q1. Write any two objectives of accounting.

Q2. What do you mean by bookkeeping Accounting and accountancy?

### **3. Do two Accounting Questions numerical from the book**

# **ENTREPRENEURSHIP**

## **1. Mission: Entrepreneur Explorer (Gamified Theme)**

### **Welcome to Your Summer Startup Quest!**

**You are now part of the “Young Entrepreneurs Club 2023–24.” Your mission this summer is to explore the world of entrepreneurship through real-world challenges. Complete all levels to become a Certified Junior Entrepreneur!**

### **Level 1 – Legendary Leader Log (Any two)**

Research a successful entrepreneur and write their life story like a short superhero origin story.

#### **Include:**

- Their challenges
- Superpowers (strong traits)
- Greatest achievement
- Lessons you learned

### **Level 2 – Retail Reporter**

Write a 250-word news article for your imaginary business magazine: “Future Business Weekly.”

**Topic:** “How Online Shopping Changed the World.”

### **Level 3 – Skill Booster Zone**

Solve all exercises at the end of Unit-1 (Entrepreneurship: Concept & Functions). This is your skill test!

#### **Level 4 – Market Detective Challenge**

Be a market detective! Choose one FMCG product and interview 10 people.

##### **Record:**

- Which brand they use
- Why they prefer it
- How often they buy it

#### **2. Journal Style: “My Entrepreneurship Diary”**

Create a personal diary or scrapbook titled:

“My Entrepreneurship Diary – summer 2025”

**Each page is a different entry:**

**Page 1:** Entrepreneur of the Month

**Page 2:** Article on Online Shopping

**Page 3:** Solved textbook exercises

**Page 4–5:** Market survey with drawings, tables, or photos

## **HINDUSTANI MUSIC (PER) INSTRUMENTAL**

S.NO	CLASS	PROJECT
1.	XI (6 <sup>th</sup> subject)	Project based on North Indian & South Indian Percussion Instruments (Chart Paper to be Made )
2.	XI (6 <sup>th</sup> subject)	Biography Of Ustad Alla Rakhkha and contribution towards Music in the field of Tabla ( Chart Paper to be made)
3.	XI (6 <sup>th</sup> Subject)	Pictorial Description of your Instrument. (Project to be made in Project file)
4.	XI(6 <sup>th</sup> Subject)	Writing practice of Prescribed Taal Kayada Notation ( Non Project)

# BIOLOGY

(1) Project on the given topics-

A- Ten medicinal plant and its uses (With their images)

B-Different types of Fungal and Bacterial Disease.

(2) Prepare a Herbarium record of any 10 dried and pressed plants or their parts (Leaves, Flower etc.) and mention family, Botanical name and uses.

(3) Revision of the chapters has been taught.

# ECONOMICS

Do any 10 numerical questions each from Mean, median and mode.  
Questions are there at the end of the chapter.

# APPLIED MATHEMATICS

Mathematics is more than just numbers and formulas; it is a powerful tool that can be applied to various real-world scenarios

1 Design a new playground for the school. You can use their knowledge of geometry, measurement, and multiplication to design a new playground for their school. You will need to consider factors such as the size of the playground, the age of the students, and the budget when designing the playground. Once you have a few designs, you could use their knowledge of geometry to determine the dimensions of each design. You would then have to use the measurements they found to calculate the cost to build the playground.

2. Budget for a class trip.

3. Create an Investment Portfolio. Financial literacy is an essential life skill, and math plays a significant role in managing personal finances. (Please include budgeting, interest rates,



investments, and financial planning, calculate interest on loans or investments, explore the stock market, and analyze different investment options

4. Visit your nearest bank and collect all types of forms and write uses of all forms. Explain the terminology of banking .( ex ATM, KYC, Saving Account, Current Account, Joint Account, Loan, Credit Card, Credit Rating, Collateral, Debtor, Interest Rate, Repo Rate, Reverse Repo Rate, Prime Lending Rate (PLR), Base Rate, Fixed Rate, Monetary Policy, Statutory Liquidity Ratio (SLR), Cash Reserve Ratio (CRR), Mobile Banking, Online Banking, NEFT (National Electronic Funds Transfer), RTGS (Real-Time Gross Settlement), IFSC (Indian Financial System Code), Micr Code etc)

## CHEMISTRY

1. Do an investigatory project on any one of following topics mentioned

(a) Acid rain -Its harmful effects

(b) Noble laureates in Chemistry

(c) Recent inventions and discoveries in Chemistry

(d) Bio diesel

(e) Kitchen chemistry

(f) Or any other topic of students' choice (related to chemistry)

Instructions:

1. Do a thorough online and off-line research about the topic

2. Make a report of your research using images and text in A4 sheets

3. File them up a stick file and submit it on reopening day without fail

# PHYSICS

Prepare project report research based on any one of the appliances used in our day-to-day life using the basic concepts and principles of Physics. Focus on concepts which we study from class 9<sup>th</sup> to Class 12<sup>th</sup>. For eg. Refrigerators, Invertors etc

# PHYSICAL EDUCATION

Project file on One miner game with History of the game, rules and regulations, Marking of the court or field, terminology and personality with awards.

# LIBRARY

Senior Section Library			
Suggested books for reading in Summer vacation			
Books lists for Inter House Library Competition 2025-2026			
S.N.	NAME OF BOOK	AUTHOR NAME	REMARK
1	The Alchemist	Paulo Coelho	
2	The da vinci code	<b>Dan Brown</b>	
3	The trials of Apollo: The Burning Maze	Rick Riordan	
4	DIARY OF A WIMPY KID: DOUBLE DOWN	Jeff Kinney	
5	Beyond 2020	APJ Abdul Kalam	
6	mission india.	APJ Abdul Kalam	
7	HOW TO THINK LIKE STEPHEN HAWKING	Daniel Smith	
8	Breaking Dawn	<b>Stephenie Meyer</b>	
9	New moon	Stephenie Meyer	
10	The Immortals of Meluha	Amish Tripathi	
11	IKIGAI: The Japanese Secret To A Long & Happy Life	Francesc Miralles and Hector Garcia	
12	WHY BHARAT MATTERS	S. Jaishankar	
13	THE ART OF THINKING CLEARLY	Rolf Dobelli and Caroline Waight	
14	THE LEADER WHO HAD NO TITLE	Robin Sharma	
15	harry potter and the philosopher's stone	J.K. Rowling	
16	Eclipse	Stephenie Meyer	
17	Percy Jackson and the Last Olympian	Rick Riordan	

18	Kalpana Chawla : a life	Anil Padmanabhan	
19	Sewasadan (Hindi)	Prem Chandra	
20	I Dare	Kiran Bedi	
21	Haldighati Ka Yaudhya: Maharana Pratap Hindi	Vedpal Singh Jatuwas	

## BUSINESS STUDIES

1. Prepare a project on the quality marks(fssai, ISI mark, Hallmark, Agmark, ISO and FPO etc.) applied on the different types of products.

**Note:** (i) Project should include introduction of quality marks, uses of marks logo, and items on which various quality marks are applied.)

(ii) Project should be handwritten by the student.

2. Write briefly on the following topic:

(i) e-business, e-commerce

(ii) NEFT and RTGS

(iii) Debit card and Credit card

(iv) GST- concept

(v) Startup India Scheme

(vi) Intellectual Property Right ( Patents, Copyrights, Trademarks)

(vii) WTO- Meaning and Features

(viii) Stock Exchange -Bombay Stock Exchange, National Stock Exchange.

3. Revise back exercise of unit one including MCQ and case-based studies.

4. Make a project on one of the given topics below.

(i) Banking State bank Of India)

(ii) Insurance (LIC)

