

BIRLA PUBLIC SCHOOL , Pilani
SUMMER VACATION HOME ASSIGNMENT -2026-27
SUBJECT-ENGLISH
CLASS-IX

HOLIDAY HOMEWORK GUIDELINES

- Use creative presentation and illustrations wherever required.
- Read all instructions carefully before attempting the questions.
- Submission will be assessed for Internal Assessment marks.

1.Art Integrated Project

Project Title: “Unity in Diversity”

Instructions

1. Prepare the project in a scrapbook/file or digitally.
2. Use colourful illustrations, drawings, maps, paintings, or digital designs.
3. Write neatly with proper headings.
4. Include relevant art forms from different Indian states.

Project Components:

1. Introduction

Write a short paragraph on:

- Meaning of “Unity in Diversity”
- Importance of cultural harmony and forms of literature in India

2. Cultural Reflection

Answer in about 100 words:

How does cultural diversity make India stronger and more beautiful?

3. Creative Expression-Create a slogan and design a digital poster of your own in canva with the use effective digital tool to make it impressive. ‘*Preserve Our Cultural Heritage*’–

1. Include:
 - A catchy slogan
 - Images/symbols of Indian heritage
 - Monuments, festivals, dance forms, or traditional arts
2. Use attractive fonts and colours.

Share it on <https://dotstorming.com/b/6a033fa83400215f100172e5>

2. Creative Writing-Poetry Writing

Self-Composed Poem Activity on “Bharat – Our Country”. Share the same on the link - <https://dotstorming.com/b/6a033fa83400215f100172e5>

Instructions:

- Compose an original poem of **12–16 lines**.
- The poem should reflect:
 - Patriotism
 - Natural beauty of India
 - Cultural diversity
 - Unity among people
- Use any poetic devices such as:
 - Rhyme
 - Repetition
 - Imagery
 - Personification (optional)
 - Simile
 - Metaphor
 - Symbolism

3. GRAMMAR FOR PRACTICE

1. <http://roadtogrammar.com?24>
2. <http://roadtogrammar.com?31>
3. <http://roadtogrammar.com?41>
4. <https://learnenglishteens.britishcouncil.org/grammar/a1-a2-grammar/countable-uncountable-nouns>

-----ENJOY YOUR VACATION-----

विद्या निकेतन बिरला पब्लिक स्कूल पिलानी
ग्रीष्मावकाश गृहकार्य (2026 -27)

कक्षा –9- विषय - हिंदी

निर्देश:

- कार्य स्पष्ट, सुंदर और पठनीय होना चाहिए।
- परियोजना कार्य में चित्रों और रंगों का रचनात्मक प्रयोग करें।
- समस्त कार्य एक अलग पतली कॉपी या फोल्डर में व्यवस्थित रूप से जमा करें।

1-”दो बैलों की कथा “ पाठ से मुहावरों को छांटकर उनके अर्थ लिखकर उनका वाक्यों में प्रयोग कीजिए।

2- प्रेमचंद की प्रसिद्ध पांच कृतियों के बारे में विस्तार से लिखिए।

3- उपसर्ग, प्रत्यय और निपात के पाँच -पाँच उदाहरण लिखिए।

4- संज्ञा और सर्वनाम के सभी भेदों के पाँच-पाँच उदाहरण लिखिए।

1. Écrivez un message à votre ami(e) lui invitant chez vous pour les vacances d'été. (30-40 mots)

2. Écrivez une lettre à votre ami(e) lui décrivant le système éducatif en Inde. (80 mots)

3. Conjuguez les verbes suivants au présent, à l'imparfait, au futur simple, au passé composé et à l'impératif:

(i) Parler (ii) Finir (iii) Aimer (iv) Choisir (v) Manger

(vi) Aller (vii) Faire (viii) Prendre (ix) Venir (x) Voir

French Teacher-9460220184

**THE STUDENTS OF MENTIONED CLASSES SHOULD PREPARE FOR 33rd IPSC
ONLINE G.K TEST IN SUMMER VACATION AS PER THE GIVEN SYLLABUS
CLASS - IX & X (Category C)**

Test Date: August 18, 2026 to September 10, 2026

➤ **GEOGRAPHY & INDIAN**

HERITAGE AND CULTURE

- Significant events, personalities of Indian history
- Salient features of Indian Society, Diversity of India.
- Art and Culture of North India
- SDGs, India – Size and Location, Physical Features of India
- Major Rivers, Lakes and Seas
- Climate Change, Factors Influencing the Climate
- Natural Vegetation and Wild Life; Major Species, their Distribution,
- Discoveries & Theories.

➤ **SCIENCE AND TECHNOLOGY**

- Developments and their applications and effects in everyday life
- Achievements of Indians in science & technology
- Development in the field of science & new technology
- Global Warming
- Environmental pollution and degradation
- Bio reserves, Bio diversity Parks, Project Tiger
- Physics in daily life
- Acids, Bases & Salts.
- New inventions & discoveries.

➤ **ECONOMICS & POLITICAL SCIENCE**

- Democracy, Constitutional design
- Electoral Politics
- Working of Institutions (Role of Parliament, Role of Prime minister and President and other Ministers of government)
- Poverty; Human Capital; Banks and Credit, Political Parties.

➤ **CURRENT AFFAIRS**

- CBSE Heritage Quiz, Newspaper – Student edition, etc.
- Current affairs – From July 2025 to March 2026.
- Abbreviations, Antonyms, Synonyms, Authors and their famous books

➤ **IT & COMPUTER**

- Apps, Playstore, windows
- AI, FIT, Multimedia

➤ **LITERATURE**

- Books and authors; Awards; famous speeches & quotes;
- Latest Abbreviations, Antonyms, Synonyms, Indian poets

➤ **REASONING & MENTAL ABILITY**

- Logical reasoning and analytical ability.
- Decision-making and problem-solving, General mental ability.
- Basic numeracy (numbers and their relations, orders of magnitude)

➤ **Visual Arts & Performing Arts**

- Musical Instruments, famous Musicians & Singers, Awards.
- World Dance forms & styles

➤ **Games & Sports**

- Cups & shields, Awards, National Sports Day, Famous Sports Personalities –
- Cricket & Hockey

BIRLA PUBLIC SCHOOL, PILANI

Summer Vacation Holiday Homework

Mathematics (Class IX)

General Instructions for Students

1. Use an A4 size file or notebook for all work.
2. Maintain neatness and proper presentation.
3. Draw diagrams using ruler and colours wherever required.
4. Write all calculations clearly.
5. Complete work independently.

Worksheet 1: Chapter 1 – Orienting Yourself (Coordinate Geometry)

Section A: Basic Understanding

1. What is a coordinate plane? Draw and label:
 - x-axis
 - y-axis
 - origin
2. Write the coordinates of:
 - Origin
 - A point on x-axis
 - A point on y-axis
3. Identify the quadrant in which the following points lie:
 - (3, 4)
 - (-5, 2)
 - (-7, -1)
 - (6, -9)
4. State whether the following points lie on x-axis or y-axis:
 - (0, 8)
 - (-5, 0)
 - (0, -3)
 - (7, 0)

Section B: Plotting Skills

5. Plot the following points on graph paper and name the figure formed:
 - A(2, 2)
 - B(6, 2)
 - C(6, 5)
 - D(2, 5)

6. Plot the points:

- P(-3, 4)
- Q(-3, -4)
- R(3, -4)
- S(3, 4)

Section C: Application & Analytical Thinking

7. A treasure map uses coordinate points to locate hidden objects.

Starting from origin O(0,0), move:

- 4 units right
- 3 units up
- 5 units left

Write the final coordinates.

8. A drone is flying above a city grid. Its positions are:

- A(2,3)
- B(2,8)
- C(7,8)

What shape is formed by joining these points?

9. Explain how coordinate geometry is useful in:

- Google Maps
- Video games
- Architecture

10. Challenge Question 

Can two different points have the same x-coordinate? Explain with examples.

Worksheet 2: Chapter 3 – Introduction to Number Systems

Section A: Concept Check

1. Define:

- Natural numbers
- Whole numbers
- Integers
- Rational numbers
- Irrational numbers

2. Write three examples each of:

- Rational numbers
- Irrational numbers

3. State whether the following are rational or irrational:

- $\sqrt{2}$
- $5/7$
- 0.121221222...
- 0.333...

- π

Section B: Decimal Expansion

4. Convert into decimal form & identify the type of decimal expansion:

- $3/8$
- $11/20$
- $7/9$

5. Express the following as rational numbers:

- 0.444...
- 0.272727...

Section C: Thinking & Reasoning

6. Explain why $\sqrt{2}$ is irrational.

7. Rahul says every decimal number is rational.

Do you agree? Justify your answer.

8. Draw a number line and represent:

- $\sqrt{2}$
- $\sqrt{3}$
- $\sqrt{5}$

10. Challenge Question ☑

If a number has a terminating decimal expansion, what can you say about its denominator?

Art Integrated Project

Theme: Mathematics Around Us

Project Components:

- Cover Page
- Introduction
- Coordinate Geometry Art/ Number System Art
- Analytical Thinking Questions
- Application Based Tasks

Project Title:

Chapter 1 (Do any one)

1. City Mapping through Coordinates
2. Mathematics in Traditional Indian Art
3. Rangoli and Coordinate Geometry

CHAPTER 2 (Do any one)

1. Journey of Numbers
2. Patterns of Irrational Numbers

Analytical Thinking Questions:

1. How are coordinates used in GPS systems?
2. Why are irrational numbers important in geometry?
3. How does mathematics help architects and game designers?
4. Which activity did you find most practical and why?

Application Based Task:

Observe your surroundings and identify 5 real-life examples where:

- Coordinates are used
- Decimal numbers are used



BIRLA PUBLIC SCHOOL, PILANI (RAJ.)

Summer Vacation Home Assignment 2026

Subject: Physics

Class- IX

1.) TASK 1: POSTER MAKING (Art integration)

Create a colourful poster showing: **Topic: "Physics in Motion"**

- Distance vs Displacement
- Speed vs Velocity
- Uniform vs Non-uniform Motion
- Real-life examples with creative captions.

2) TASK 2: MAP ACTIVITY (Mathematics Integration)

Topic - "Find My Displacement"

Draw a map from:

Home → Market → Park → School

Now calculate:

(i) Total Distance Travelled

(ii) Net Displacement

Use arrows and directions to represent it on the map.

3) TASK 3: INTERVIEW ACTIVITY

Topic- "Motion in Real Life"

Interview any one person:

- Driver
- Sportsperson
- Cyclist
- Shopkeeper
- Delivery person

Ask: **"How does motion help in your daily work?"**

Write 5 points from your discussion.

4) TASK 4: Case Study:

Topic- "How motion shapes our world."

- Study how motion impacts transport systems, urban planning, and sustainability. Prepare a ppt or flipbook showing the concepts.

5) TASK 5: REFLECTION PAGE:

Topic- "What I Learnt"

My 5 Learnings from this Project

One concept I enjoyed most

One concept I can apply in daily life

Subject- Chemistry

This assignment is designed to bridge the gap between classroom theory and the chemistry occurring in your daily environment. Focus on clarity, visual appeal, and scientific accuracy.

1. Chart Making: Separation of Mixtures

Create a comprehensive, visually engaging flow chart or infographic on a standard chart paper (A3 or larger) illustrating the various methods used to separate components of a mixture.

Your chart should include:

Methods to cover: Evaporation, Centrifugation, Decantation (using a separating funnel), Sublimation, Chromatography, and Distillation (Simple and Fractional).

Visual Elements: Hand-drawn labeled diagrams for each apparatus.

Context: For each method, write one real-world application (e.g., “Centrifugation: Used in diagnostic labs for blood and urine tests”).

2. Paper Presentation: Matter Around Us

Prepare a detailed paper presentation (in a project file or folder) covering the following core concepts. Each section should include definitions, key characteristics, and examples.

A. Pure and Impure Substances

Pure Substances: Explain the difference between Elements (cannot be broken down) and Compounds (fixed composition).

Impure Substances (Mixtures): Explain how they differ from compounds (no fixed ratio, components retain their properties).

B. Homogeneous and Heterogeneous Mixtures

Create a comparison table highlighting the uniformity of composition and visibility of boundaries.

Include the concept of “phases” (e.g., a single phase for homogeneous vs. distinct phases for heterogeneous).

C. Solution and its Components

Define a Solution as a homogeneous mixture.

Solvent: The component that dissolves the other (usually present in larger quantity).

Solute: The component that is dissolved (usually present in smaller quantity).

D. Saturated and Unsaturated Solutions

Saturated: A solution in which no more solute can be dissolved at a specific temperature.

Unsaturated: A solution where more solute can be added and dissolved without changing the temperature.

Note: Briefly mention the effect of temperature on solubility.

E. Concentration of a Solution

Explain how to express the strength of a solution. Include the two primary formulas:

Mass by Mass percentage:

Mass by Volume percentage:

Volume by Volume Percentage:

Practical Observation: Chemistry in Daily Life

Observe your surroundings (kitchen, bathroom, garden) and prepare a list of at least 10 mixtures you interact with daily. Classify them in the table format .

Subject-Biology

1. Differentiate between diffusion and osmosis with one daily-life example each.
2. What would happen to a cell if its cell membrane disappeared?
3. Why are living organism not able to survive without cells?
4. Explain the similarity of a cell to a school system.
5. What is the reason for the rigidity of plant cells?
6. What changes would occur in a cell if it did not have a nucleus?
7. How would the structure and functioning of human beings affected if their cells had rigid cell walls like plant cells?
8. What would be the consequences if animal cells had chloroplasts?
9. What would happen to plant life if osmosis did not take place in plant cells?
10. Make a chart on role of Indian scientists, Birbal Sahni and Arun Kumar Sharma in the field of biology.



BIRLA PUBLIC SCHOOL, PILANI
Summer Vacation HomeAssignment (2026-27)

Subject: Social Science

Class: IX

General Instructions:

1. **Cover page**- Displaying the topic.
2. **Acknowledgement** – Thanking the people or institution that has helped you in completion of your project.
3. **Certificate**- Mentioning your name and the name of teacher under whose supervision you have completed your work.
4. **Index**- Giving the list of contents with page numbers.
5. **Introduction**- Giving the purpose and importance of a study.
6. **Chapters**- Give a title to each chapter along with details, pictures and newspaper cuttings.
7. **Conclusion**- What do you learn from your study?
8. **Bibliography**- Showing the sources from where you have gathered information. Present the following in your project report:
 - Data/Statistical Analysis/Map work
 - Analysis/Explanation and interpretation
 - Bibliography
9. The students must submit original work.
10. Project Report should be hand written only.
11. Eco-friendly materials can be used by students.
12. Students can use primary as well as secondary sources for the research work.

Activity Instructions

Instruction
Observe daily life situations
Conduct survey of at least 5 people
Complete case study with proper explanation

Theme

Theme
Understanding Society, Economy and Democracy

Objective

Objective
To understand how society, economy and democracy are interconnected in real life.
To apply concepts like scarcity, choice, and democracy in daily situations.

To develop observation, creativity and analytical skills.

Part A: Real Life Study (Integrated)

Task	Details
1	Observe your daily life and write: 5 examples of scarcity, 3 choices you made, 2 opportunity costs
2	Explain how these decisions affect your life and society.

Part B: Society, Economy and Democracy Connection

Task	Details
Explanation	Explain how the following are connected: Society: How people live and interact; Economy: How resources are used; Democracy: How decisions are made
Additional	Give real-life examples.

Part C: Case Study

Task	Details
Choose ONE	Your family / A shopkeeper / A farmer
Explain	Resources used, Decisions taken, Role of government or democracy, Problems faced and solutions

Part D: Survey Activity

Task	Details
Survey	Conduct a survey of 5 people
Questions	How do they use money? Do they make choices due to scarcity? Why is democracy important?
Presentation	Present findings using a chart or graph

Part E: Creative Work

Task	Options
Choose ONE	Poster: Save Resources / Importance of Democracy
	Mind map: Economy + Democracy + Society
	Comic strip showing scarcity and choice

Conclusion

Task
Write what you learned about society, economy and democracy.

विद्या निकेतन बिरला पब्लिक स्कूल पिलानी

ग्रीष्मावकाश गृहकार्य (2026 -27)

कक्षा -9 (संस्कृत)

आवश्यक निर्देश - ग्रीष्मकालीन गृहकार्य के लिए अलग से एक पतली उत्तर पुस्तिका बनाएँ और यह सारा कार्य उसमें ही करें।

संख्या 1-100 कण्ठस्थ करें।

शब्दरूप स्मरण करें -

पुल्लिङ्ग शब्दरूप - देव, शिवि, शिशु, पितृ स्त्रीलिङ्ग शब्दरूप - रमा, गति, सरस्वती
नपुंसकलिङ्ग शब्दरूप - फल, मधु

धातुरूप (पांचों लकारों में)लिखें और स्मरण करें - पठ् , कृ , गम् , भू , अस्

पाठ्यक्रम पर आधारित सभी अव्यय स्मरण करें और प्रत्येक अव्यय का प्रयोग करते हुए एक-एक वाक्य बनाएँ।

उच्चारण स्थान के सभी सूत्र याद करें।



BIRLA PUBLIC SCHOOL, PILANI
BPS FUTURE QUEST (SUMMERCATION HOMEWORK)
“EXPLORE, DREAM, DECIDE YOUR PATH”
CLASSES - IX & X

Objective:

To enable students to explore their interests, understand diverse career pathways, interact with real professionals, and gain hands-on experience using the **CBSE Career Guidance Portal**, helping them make informed choices for their future.

Task 1: Explore the CBSE Career Guidance Portal

Steps:

1. Visit the Portal:

[CBSE Career Guidance Portal](https://cbsecareerguidance.in/)(<https://cbsecareerguidance.in/>)

2. Create an Account:

- Sign up using your details, **or**
- Log in via your Gmail account.

Important:

While creating your account, please choose **Rajasthan** as the State

(**Do not select your hometown state, as the school is located in Rajasthan**).

After selecting the state, choose your school name from the drop-down list:

Vidya Niketan Birla Public School, Pilani

3. Explore the Dashboard:

Familiarize yourself with the following key sections:

- **Career Library / Courses:**
Explore different career options and the courses related to them.
- **Colleges:**
Learn about colleges offering courses in your areas of interest.
- **Exams:**
Check entrance exams required for your chosen careers.

Note:

Take notes of the features you find most useful or interesting.

Think of it as a **career treasure hunt!**

Task 2: Explore Five Careers

Steps:

1. Choose **five careers** from the **Career Library** that interest you (e.g., Game Developer, Architect, Psychologist, Environmental Scientist, Graphic Designer).
2. For each selected career, write a brief note on:
 - **Nature of work**
 - **Required subjects in Classes 11–12**
 - **Skills needed**
 - **Growth prospects**
 - **Why you liked this option?**

Task 3: Connect With a Professional

Steps:

1. Reach out to at least one professional working in a career you are exploring. You can connect via:
 - LinkedIn or social media
 - School alumni or family friends
 - Professional networks
2. Ask about their daily work, challenges, and rewards.
3. Record your findings:
 - 5 Positive Aspects of the career
 - 5 Challenging Aspects of the career
4. Write a short reflection (100–150 words):
 - How did the interaction influence your understanding of the career?
 - Did it change your opinion or interest in this career?

Note: Include a photo, screenshot, or short video clip from your interaction.

Submission Requirements: Students must submit

1.A PowerPoint Presentation (PPT):

Summarizing:

- The five careers explored
- Key highlights from the Career Library research
- Insights gathered from the professional interaction

2. A Reflective Sheet:

- What did you learn from this activity?
- How has your understanding of careers changed?
- Which career did you find most interesting and why?
- Did talking to a professional change your opinion about any career?

Submission Deadline:

- First day after summer vacation
- Bring your PPT on a **Pendrive** and submit it to **Mrs.Aditi (Senior Asst.Academic Coordinator)** or share via email priyanka020286@bpspilani.edu.in/varsha020071@bpspilani.edu.in