



Einstein

PUBLIC SCHOOL

Nurturing a better tomorrow

SUMMER VACATION HOLIDAY HOMEWORK-2026

Class-XI-B

English

Instructions:

- Complete the work neatly in a separate notebook/file.
- Use creativity, pictures, charts, and proper presentation.
- Write in your own words.
- Mention sources wherever required.

Section A: Reading Skills

1. Newspaper Reading Activity

Read any English newspaper for 15 consecutive days and prepare a table:

Date. Headline. Type

(Education/Environment/Politics etc.)

- Summary (50 words)
- Your Opinion
- Write one new vocabulary word daily with meaning and sentence.

2. Unseen Passage Practice

Find one unseen passage from newspaper/magazine and answer:

- Identify theme
- Write summary in 50 words
- Mention 5 difficult words with meanings
- Frame 3 comprehension questions

Section B: Writing Skills & Grammar

3. Poster Making

Prepare any one poster on:

- Save Environment
- Digital Education
- Importance of Reading Books
- Water Conservation

Include: Title, slogan, picture, message.

4. Formal Writing

Write any one:

- a) Job Application with Resume for a Teaching Post

OR

- b) Letter to Editor on excessive use of mobile phones among teenagers

5. Grammar Practice

Solve exercises on:

- Tenses
- Determiners
- Clauses
- Transformation of Sentences
- Error Correction

Write 10 examples of each.

Section C: Literature

Hornbill

6. Chapter: The Portrait of a Lady

- Describe grandmother's character.
- How did the author's relationship change with grandmother?
- What values does grandmother represent?
- Draw timeline of grandmother's life.
- Write a character sketch (120 words).

7. Poem: A Photograph

Do the following:

- Explain theme
- Find poetic devices
- Write summary (100 words)
- Prepare comparison chart between “Past” and “Present”

Snapshot

8. Chapter: The Summer of the Beautiful White Horse

Prepare:

- Character sketch of Aram
- Character sketch of Mourad
- Moral values learnt
- Mind map of story

9. Creative Activity

Choose any chapter and make:

- Storyboard
- OR**
- Character illustration with dialogues

10. Literature Project

Prepare project on:

“Importance of Family Values in Literature”

Include:

- Introduction
- Examples from chapters
- Personal opinion
- Conclusion
- Pictures

Section D: Speaking & Listening Skills

11. Reading Aloud Activity

Read one English article daily for 15 days and maintain record:

- Date
- Topic
- New Words Learnt

12. Presentation Activity

Prepare a 2–3 minute speech on:

- Role of Technology in Education
OR
- Women Empowerment
OR
- Importance of Mental Health.

Bonus Creative Work

Create an English Vocabulary Scrapbook:

- 30 new words
- Meaning
- Synonym
- Antonym
- Sentence
- Picture (optional)

Physical Education

Unit 1: Changing Trends & Career in Physical Education

Unit 2: Olympic Value Education / Olympic Movement

Section A: Short Answer Questions [5 x 2 = 10 marks]

Answer in 60-80 words each.

1. Define Physical Education and state its two main aims.
2. What are the changing trends in sports equipment and technology? Give two examples.
3. Mention any four career options in the field of Physical Education.
4. What is Olympism? Name the three Olympic values.
5. Write a short note on the Olympic Flag and its symbolism.

Section B: Long Answer Questions [5 x 4 = 20 marks]

Answer in 150-200 words each.

1. Explain the concept, aims, and objectives of Physical Education. How has it developed in India post-independence?
2. Discuss the changing trends in sports related to playing surfaces, wearable gear, and technological advancements.
3. Describe the Khelo India and Fit India Programs and their role in promoting sports in India.
4. Differentiate between Ancient and Modern Olympic Games. Also explain the Olympic motto, symbol, and oath.
5. Explain the structure of the Olympic Movement. Write about the role of IOC, NOC, and IFS.

Based on CBSE Class 11 Syllabus 2025-26 ce8a

Tips:

- For short questions, use headings and bullet points.
- For long questions, give definitions first, then explain with examples.
- Draw diagrams for Olympic rings and flag if possible.

Want me to make the answer key for this too so you can check after writing?

Computer Science

SR.NO	SUBJECT	TOPICS	ACTIVITY	MATERIAL REQUIRED
8	Computer Science	1. Secondary Storage Devices	1. Make a presentation on Secondary storage devices and take the print out of the slides and make a file of it.	Computer, sheets and printer.
		2. Operators	1. Make a chart of different types of operators with their logic gates and truth table.	Chart, pencil, colors etc
		3. Conversions	2. Write 4 examples of each conversion	Assignment sheets and pen.
			1. Decimal number system to other base. 2. Binary number system to other base . 3. Octal number system to other base. 4. Hexadecimal number system to other base.	

Hindi

सामान्य निर्देश:

- समस्त कार्य हिंदी की सुलेख व गृहकार्य उत्तर-पुस्तिका में सुंदर एवं स्पष्ट लिखावट में करें।
- प्रश्नों के उत्तर मौलिक, तार्किक और विश्लेषणात्मक होने चाहिए।
- परियोजना कार्य (Project Work) को रचनात्मक और कलात्मक बनाने के लिए रंगीन रेखाचित्रों या चित्रों का प्रयोग कर सकते हैं।

खंड 'क': रचनात्मक एवं परियोजना कार्य (Art-Integrated Activities)

1. कबीर का वैचारिक कोलाज: कबीरदास जी के बाह्याडंबरों और सामाजिक कुरीतियों पर प्रहार करने वाले किन्हीं पाँच दोहों/पदों को ए-4 साइज़ शीट पर कलात्मक ढंग से लिखिए और उनके संदेश को स्पष्ट करने वाला एक सुंदर चित्र या कोलाज बनाइए।
2. मीराबाई की भक्ति-भावना: मीराबाई के पदों में अभिव्यक्त 'दास्य' और 'माधुर्य' भाव की तुलना कीजिए। कृष्ण-भक्ति से ओत-प्रोत उनकी किन्हीं दो प्रसिद्ध पंक्तियों का सुंदर सुलेख चार्ट तैयार कीजिए।

खंड 'ख': आरोह (भाग-1) - काव्य खंड (कबीर एवं मीराबाई)

1. कबीर ने ऐसा क्यों कहा है कि "जग बौराना" (संसार पागल हो गया है)? पद के आधार पर उनके इस कथन की तार्किक समीक्षा कीजिए।
2. कबीर के अनुसार ईश्वर का स्वरूप क्या है? उन्होंने लकड़ी और आग के उदाहरण (जैसे बाढ़ी काठ ही कांटे...) से अपने अद्वैतवाद को किस प्रकार सिद्ध किया है?

3. "लोक-लाज खोने" से मीराबाई का क्या तात्पर्य है? समाज ने उन्हें 'कुलनासी' और 'बावरी' क्यों कहा? पद के संदर्भ में स्पष्ट कीजिए।
4. 'ऑसुअन जल सींचि-सींचि, प्रेम-बेलि बोई...' पंक्ति का काव्य-सौंदर्य स्पष्ट कीजिए। यहाँ किस रस की निष्पत्ति हो रही है?

खंड 'ग': आरोह (भाग-1) - गद्य खंड (नमक का दारोगा)

1. "धन के ऊपर धर्म की विजय" — 'नमक का दारोगा' कहानी के इस मुख्य संदेश को मुंशी वंशीधर और पंडित अलोपीदीन के चरित्र के माध्यम से सिद्ध कीजिए।
2. वंशीधर के पिता का चरित्र आज के समाज की किस कड़वी सच्चाई को उजागर करता है? जब वंशीधर ईमानदारी के कारण नौकरी से निलंबित होकर घर लौटे, तो उनके माता-पिता की क्या प्रतिक्रिया थी?
3. कहानी के अंत में पंडित अलोपीदीन द्वारा वंशीधर को अपनी सारी जायदाद का स्थायी मैनेजर नियुक्त करने के पीछे क्या कारण थे? क्या अलोपीदीन का हृदय परिवर्तन वास्तविक था? समीक्षा कीजिए।
4. 'नमक का दारोगा' कहानी का कोई अन्य उपयुक्त शीर्षक सुझाइए और अपने सुझाव के पक्ष में तर्क दीजिए।

खंड 'घ': अभिव्यक्ति और माध्यम (संचार एवं जनसंचार)

1. संचार (Communication) किसे कहते हैं? इसके प्रमुख तत्वों (स्रोत, एनकोडिंग, संदेश, माध्यम, डिकोडिंग, फीडबैक और शोर) को एक सुंदर प्रवाह चार्ट (Flow Chart) बनाकर समझाइए।
2. अंतःवैयक्तिक (Intrapersonal) और अंतर-वैयक्तिक (Interpersonal) संचार में उदाहरण सहित अंतर स्पष्ट कीजिए।
3. जनसंचार (Mass Communication) की प्रमुख विशेषताएँ क्या हैं? आधुनिक समाज पर जनसंचार के सकारात्मक और नकारात्मक प्रभावों की विस्तृत विवेचना कीजिए।
4. जनसंचार के विभिन्न माध्यमों (प्रिंट, रेडियो, टेलीविज़न, इंटरनेट) में से आपको कौन सा माध्यम सबसे अधिक प्रभावशाली और विश्वसनीय लगता है और क्यों?

5. लघु टिप्पणियाँ लिखिए (HOTS):

- येलो जर्नलिज़्म (पीत पत्रकारिता)
- सेंसरशिप और अभिव्यक्ति की स्वतंत्रता
- डिजिटल मीडिया और आज की युवा पीढ़ी

Chemistry

GENERAL INSTRUCTIONS:

- Attempt all questions systematically in your dedicated Chemistry assignment notebook.
- Show step-by-step logic, calculation pathways, relevant formulas, and standard units for all numerical problems.
- Maintain clear handwriting and neatly box final numerical values.

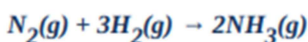
CHAPTER 1: SOME BASIC CONCEPTS OF CHEMISTRY

I. VERY SHORT & SHORT ANSWER TYPE QUESTIONS

1. State the **Law of Definite Proportions**. Provide a suitable experimental example to support and justify this fundamental law. [2]
2. Define and distinguish between **Molarity (M)** and **Molality (m)**. Explain scientifically why molality is preferred over molarity when conducting reactions across variable temperature parameters. [2]
3. Calculate both the total number of moles and the precise count of individual atoms present in a sample of **52 g** of Helium (**He**). (**Atomic mass of He = 4 u**) [2]
4. What is the distinction between **Precision** and **Accuracy** in scientific measurements? Illustrate with a brief example. [2]
5. Define the term **homogeneous mixture**. How does it structurally differ from a **heterogeneous mixture**? Provide two unique laboratory examples for each category. [3]

II. LONG ANSWER & NUMERICAL TYPE QUESTIONS

6. A chemical compound yields the following percentage composition upon quantitative analysis: **Na = 29.11%**, **S = 40.51%**, and **O = 30.38%**. Determine its true **empirical formula** and molecular formula if its molar mass is given as **158 g/mol**. (**Atomic masses: Na = 23, S = 32, O = 16**) [4]
7. Dinitrogen gas and dihydrogen gas are mixed to react with each other dynamically to synthesize ammonia according to the balanced chemical equation:



If **50.0 kg** of $N_2(g)$ and **10.0 kg** of $H_2(g)$ are thoroughly mixed together:

- a. Identify and prove which of the two reactants acts as the **limiting reagent**.
 - b. Calculate the maximum theoretical mass of $NH_3(g)$ produced by this mixture.
 - c. Calculate the mass of the remaining reactant left unreacted at the completion of the process.
8. Commercially available concentrated nitric acid used in laboratory work is **68%** nitric acid by mass in aqueous solution. What should be the molarity of such a sample of the acid if the density of the solution is **1.504 g/mL**? (**Molar mass of $HNO_3 = 63 \text{ g/mol}$**) [5]

Physics

1. State the principle of homogeneity of dimensions. Test the dimensional homogeneity of the following equation: $h = h_0 + v_0t + \frac{1}{2}gt^2$.
2. Define dimensional formula. Give uses of dimensional analysis. Write down the limitations of dimensional analysis.
3. If the value of universal gravitational constant in SI is $6.6 \times 10^{-11} \text{ Nm}^2 \text{ kg}^{-2}$, then find its value in CGS system.
4. In van der Waal's equation $(P + \frac{a}{V^2})(V - b) = RT$. Determine the dimensions of a and b?
5. If the velocity of light c , the constant of gravitation G and Planck's constant h be chosen as fundamental units, find the dimensions of mass, length and time in terms of c , G and h .
6. A calorie is a unit of heat (energy in transit) and it equals about 4.2 J where $1 \text{ J} = 1 \text{ kg m}^2 \text{ s}^{-2}$. Suppose we employ a system of units in which the unit of mass equals $\alpha \text{ kg}$, the unit of length equals $\beta \text{ m}$, the unit of time is $\gamma \text{ s}$. Show that a calorie has a magnitude of $4.2 \alpha^{-1} \beta^{-2} \gamma^2$ in terms of the new units.
7. **Assertion-Reason Type questions:**
 - (a) If both assertion and reason are true and reason is the correct explanation of assertion.
 - (b) If both assertion and reason are true but reason is not the correct explanation of assertion.
 - (c) If assertion is true but reason is false
 - (d) If both assertion and reason are false
 - (e) If assertion is false but reason is true.
 - (i) Assertion: When we change the unit of measurement of a quality, its numerical value changes. Reason: Smaller the unit of measurement smaller is its numerical value.
 - (ii) Assertion: The equation $y = x + t$ cannot be true, where x, y are distance and t is time.
Reason: Quantities with different dimensions cannot be added.
 - (iii) Assertion: Number of significant figure is 0.005 and is one and that in 0.500 is three.
Reason: Zeroes are not significant figures.

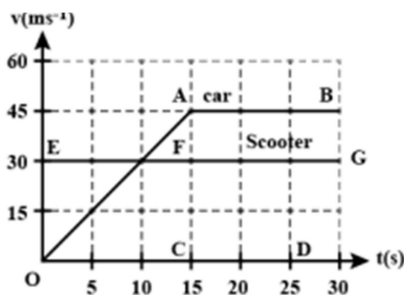
8. If displacement of particle is given by $x = t^2 + 5t + 3$. Find (i) Velocity of the particle at $t = 3s$ and (ii) Average velocity of the particle between $t = 1s$ to $t = 3s$.

9. A body travelling along a straight line traversed one-half of the total distance with velocity v_0 . The remaining part of the distance was covered with a velocity v_1 , for half the time and with velocity v_2 for the other half of time. Find the mean velocity averaged over the whole time of motion.

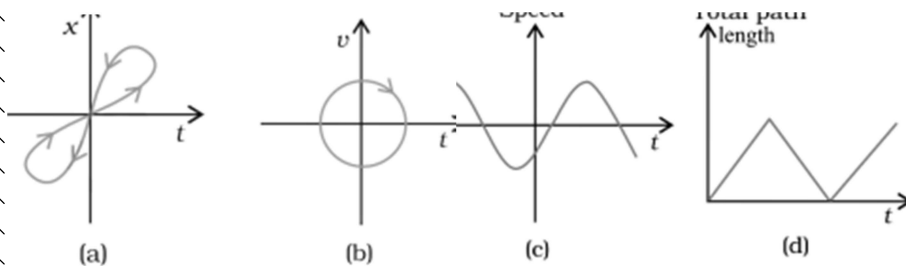
10. In a car race, car A takes time t second less than car B and finishes the finishing point with a velocity v more than that of the car B. Assuming that the cars start from rest and travel with constant acceleration a_1 and a_2 respectively show that $v = t\sqrt{a_1 a_2}$.

11. A woman starts from her home at 9.00 am, walks with a speed of 5 km h^{-1} on a straight road up to her office 2.5 km away, stays at the office up to 5.00 pm, and returns home by an auto with a speed of 25 km h^{-1} . Choose suitable scales and plot the x - t graph of her motion.

12. As soon as a car just starts from rest in a certain direction, a scooter moving with a uniform speed overtakes the car. Their velocity time graphs are shown in the figure. Calculate (i) the difference between the distances travelled by the car and the scooter in 15s (ii) the time when the car will catch up the scooter and (iii) the distance of car and scooter from the starting point at that instant.



13. Look at the graphs (a) to (d) (Fig.) carefully and state, with reasons, which of these cannot possibly represent one-dimensional motion of a particle.



14. Assertion-Reason Type questions:

- (a) If both assertion and reason are true and reason is the correct explanation of assertion.
- (b) If both assertion and reason are true but reason is not the correct explanation of assertion.

(c) If assertion is true but reason is false

(d) If both assertion and reason are false

(e) If assertion is false but reason is true.

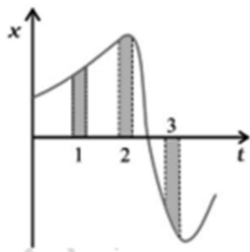
(i) Assertion: A body may be accelerated even when it is moving at uniform speed.

Reason: When direction of motion of the body is changing then body may have acceleration.

(ii) Assertion: A body falling freely many does so with constant velocity.

Reason: A body falls freely, when acceleration of the body is equal to acceleration due to gravity.

15. Figure gives the x - t plot of a particle in one-dimensional motion. Three different equal intervals of time are shown. In which interval is the average speed greatest, and in which is it the least? Give the sign of average velocity for each interval.



Biology

Chapters

1. The Living World
2. Biological Classification
3. Plant Kingdom
4. Animal Kingdom

General Instructions

- Use an A4 size notebook/file.
- Draw neat and labelled diagrams wherever required.
- Write answers in your own words.
- Maintain proper handwriting and presentation.
- Complete all activities before reopening of school.

Part A – Reading and Writing Work

Chapter 1: The Living World

Q1. Define the following terms:

- Taxonomy
- Species
- Genus
- Family
- Order
- Nomenclature

Q2. Answer the following questions:

- A. Why is classification necessary?
- B. What are the characteristics of living organisms?
- C. Explain binomial nomenclature with examples.
- D. Differentiate between taxonomy and systematics.

Activity:-

- Prepare a chart showing the taxonomic hierarchy of:
- Human beings
- Mango plant

Chapter 2: Biological Classification

. Short Answer Questions

- A. Write differences between Archaeobacteria and Eubacteria.
- B. What are cyanobacteria?
- C. Explain saprophytic nutrition in fungi.
- D. What are lichens?

Q3. Long Answer Question

A. Explain the Five Kingdom Classification given by R. H. Whittaker.

Activity:-

- Collect pictures of:
 - Bacteria
 - Amoeba
 - Mushroom
 - Yeast
 - Euglena
- ✓ Paste them in your notebook and write 2 lines about each.

Chapter 3: Plant Kingdom

Q1. Write differences between:

- Algae and Bryophytes
- Gymnosperms and Angiosperms
- Monocot and Dicot plants
- Q2. Answer the following:

1. Why are bryophytes called amphibians of the plant kingdom?
2. Explain alternation of generations.
3. Write economic importance of algae.
4. Name major groups of plant kingdom.

Diagram Practice:-

Draw and label:-

- Spirogyra
- Moss plant
- Fern plant
- Cycas
- Structure of a flower

➤ Chapter 4: Animal Kingdom

Q1. Fill in the blanks:

- a. Porifera are commonly known as _____.
- b. Animals with jointed legs belong to phylum _____.
- c. Earthworm belongs to phylum _____.
- d. Animals with radial symmetry are found in phylum _____.

Q2. Differentiate between:

- Chordates and Non-chordates
- Vertebrates and Invertebrates

Q3. Short Answer Questions

- What is metamerism?
- Define coelom.
- Explain symmetry in animals.

What are the characteristics of phylum Arthropoda?

➤ Q4. Long Answer Question

- Describe the classification of phylum Chordata with suitable examples.
- Revision Assignment

Answer in one word:

1. Study of fungi
2. Basic unit of classification
3. Group of similar species
4. Organisms without true nucleus
5. Amphibians of plant kingdom

MCQs

1) Who proposed Five Kingdom Classification?

- | | |
|-------------------|---------------------|
| a) Charles Darwin | b) R. H. Whittaker |
| c) Aristotle | d) Carolus Linnaeus |

2) Bryophytes reproduce through

- | | |
|-----------|------------|
| a) Seeds | b) Flowers |
| c) Spores | d) Fruits |

3) Which phylum includes insects?

- | | |
|-------------|---------------|
| a) Mollusca | b) Arthropoda |
| c) Annelida | d) Porifera |

Holiday Task

Learn scientific names of 20 organisms.

Revise NCERT diagrams regularly.