

**PRAYAG PUBLIC SCHOOL**  
**WINTER VACATION HOME-WORK(2025 -26)**  
**CLASS – 8<sup>th</sup>**

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**SUBJECT – SCIENCE**

- (1) Differentiate between asexual and sexual reproduction by giving one example of each.
- (2) An object is placed 20 cm in front of a plane mirror. What is the distance between the object and its image?
- (3) Why does the image formed by a plane mirror appear laterally inverted but not inverted vertically?
- (4) Why is a balanced diet especially important during adolescence? Give two reasons.
- (5) If the time period of a sound wave is 0.002 s, calculate its frequency.
- (6) Why can sound travel through solids but not through vacuum?
- (7) What is electroplating? Mention one practical use of electroplating.
- (8) Draw a well labelled diagram of the following given points.  
(a) Human eye                      (b) Human ear                      (c) life cycle of frog
- (9) Underline the the hard words / difficult words of the chapter -11 (Chemical effects of Electric current) and write their proper meaning in both in Hindi & English with the help of dictionary.
- (10) Underline the the hard words / difficult words of the chapter -12 (Some Natural phenomena) and write their proper meaning in both in Hindi & English with the help of dictionary.

**SUBJECT – COMPUTER**

- Q1. Write the syntax of creating table, show database, renaming a column in SQL.
- Q2. Solve the worksheet-4 in Book.
- Q3. Create a table of bakery shop with 5 fields and fill their records in SQL.
- Q4. Learn the extra exercise of Chapter- 7 & 10.
- Q5. Learn the answer of the questions 1 to 3 of Chapter – 9 & 10.

**SUBJECT – MATHEMATICS**

- Q1. Write and learn the square numbers from 2 to 40.
- Q2. Write and learn the cube numbers from 2 to 25.
- Q3. Learn the given identities and solve 3 questions from each algebraic identity.
  - $(a + b)^2 = a^2 + 2ab + b^2$  ,  $(a - b)^2 = a^2 - 2ab + b^2$
  - $(a + b)(a - b) = a^2 - b^2$  ,  $(x + a)(x + b) = x^2 + (a + b)x + ab$
  - $(a + b + c)^2 = a^2 + b^2 + c^2 + 2(ab + bc + ca)$  .
- Q4. Prepare chart of formulas of mensuration with labelled diagram  
(Area, Perimeter, T.S.A , C.S.A & Volume)
- Q5. Solve the Assignment - 02 and Revision Assignment of **Chapter - Linear equations** from Work Book.
- Q6. Solve the Assignment - 03 of **Chapter – Mensuration** from Work Book.

## **SUBJECT – S.ST.**

- Q1. Learn & Write the given terms ( 2 times) From Book.  
(Sanitation, Universal Access, Basic Needs , Human Resources, Immigration, Population Composition, Picket, Sati Pratha)
- Q2. Read Chapter “Women Caste and Reform” Mark all hard words and write their meaning in book and Do Question no. 1 and Question no. -2 in Work Book.
- Q3. Read Chapter “Human Resources” And Write the current population density of India, China and Japan. Do Question no. 1 and Question no-2 in Work Book.
- Q4. Read Chapter “Public Facility “frame 5 - Questions with answers by yourself and Do Question -1 and 2 in Work Book.
- Q5. **Map Work:** On the political map of World.  
Mark 5 - most and least populous countries of the world.

## **SUBJECT – HINDI**

- सूरदास के पद पाठ को पढ़िए और कठिन शब्द छांटकर लिखिए।
- पाठ 9 और पाठ 10 के प्रश्न उत्तर याद करें
- शीत ऋतु से संबंधित 10 मुहावरे लिखे साथ ही उनके अर्थ स्पष्ट करते हुए वाक्य प्रयोग भी करें।
- अपने मित्र को पत्र लिखिए जिसमें सर्दी की छुट्टियों का वर्णन हो
- अपनी पाठ्यपुस्तक से प्रतिदिन 10 विलोम 10 पर्यायवाची एवं 10 वाक्यांश के लिए एक शब्द याद करें।

## **SUBJECT – ENGLISH**

- Q1. Pick 5 - Sentences from the Chapter "The Summit Within" and underline the verbs.  
Identify whether they show physical or mental action.
- Q2. Write the central idea of the chapter “The Jody's fawn " in 5-6 points.
- Q3. Write meanings and frame sentences of 8 new vocabulary words.
- Q4. **Diary Entry :** Imagine You are Jody after taking the fawn home express your feelings.
- Q5. Pick 5 - Nouns from the poem the School boy and Convert them into adjectives.
- Q6. Read chapter "A Visit to Cambridge" underline all the difficult words, find their meanings and frame sentences of any 10 words .
- Q7. Write 5 character traits of Stephen Hawking.
- Q8. Writing an application to the Mayor of the municipality of your town asking him to provide street lights in your locality..
- Q9. Learn idioms (1 to 10) given in your book, and try to frame your own sentences using them.
- Q10. Learn all three forms of verbs which you have written in your diary.