

**KENDRIYA VIDYALAYA TIRUVANNAMALAI**  
**SUMMER HOLIDAY HOME WORK 2022-2023**

**CLASS- XII**

**ENGLISH:**

1. Prepare ASL project on the chapter Lost Spring in 400/500 words. You are required to collect information on Seemapuri and Ferozabad people and their business with pictures and images. The project must have certificate and detail write up as well as conclusions.
2. Write a brief analysis about origin of Tamil language and its classical language status in about 150/200 words.
3. Reading project- Read the poem An Elementary school classroom in a Slum.

**PHYSICS:**

**CHAPTER- I**

Electric charges and fields NCERT exercise and numerical to be completed as an assignment.

**CHEMISTRY:**

1. Do an investigatory project in chemistry for the partial fulfillment of term practicals.
2. Complete the NCERT exercise and in text questions and answers for halo alkanes and halo arenes.

**BIOLOGY:**

Complete the following question and answers

1. With the help of neat and well labeled diagram, describe briefly the human male reproductive system.
2. Describe briefly the internal structure of human ovary.

3. What is spermatogenesis? Briefly describe the process of spermatogenesis

MATHS:

1. If  $X = \begin{pmatrix} 3 & 1 & -1 \\ 5 & -2 & -3 \end{pmatrix}$  and  $Y = \begin{pmatrix} 2 & 1 & -1 \\ 7 & 2 & 4 \end{pmatrix}$  then find i)  $X+Y$  ii)  $2X-3Y$  iii) a matrix  $Z$  such that  $X+Y+Z$  is a zero matrix.

2. If  $A = \begin{pmatrix} 0 & 1 \\ 1 & 1 \end{pmatrix}$  and  $B = \begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$  then show that  $(A+B)(A-B) \neq A^2 - B^2$

3. If  $A = \begin{pmatrix} 5 & 3 \\ -1 & -2 \end{pmatrix}$  find  $A^2 - 3A - 7I$ .

4. Solve for  $x$  and  $y$ ,  $x \begin{pmatrix} 2 \\ 1 \end{pmatrix} + y \begin{pmatrix} 3 \\ 5 \end{pmatrix} + \begin{pmatrix} -8 \\ -11 \end{pmatrix} = 0$

5. Find inverse of  $\begin{pmatrix} 2 & -1 & 3 \\ -5 & 3 & 1 \\ -3 & 2 & 3 \end{pmatrix}$ .

6. Memorize differentiation formulas.

HINDI:

ग्रीष्मकालीन अवकाशगृहकार्य

1. 'उषा' कविताका भावार्थ लिखें।
2. 'नमक' कहानीका सारांश लिखें।
3. भ्रष्टाचार एक विश्वव्यापी समस्या है, कैसे?
4. हिंदी दिवस पर निबंध लिखें।