



## KENDRIYA VIDYALAYA THIRUVANNAMALAI

AUTUMN BREAK HOLIDAY HOME WORK

CLASS XII - III

2022-2023

सर्वं त्वं पूषन् अपाङ्गुलं  
केन्द्रीय विद्यालय संगठन

Dr. (Smt.) REEMA STELLA JAYACHANDRAN

PRINCIPAL

डॉ (श्रीमती) रीमा स्टेला जयचंद्रन  
प्राचार्या

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सर्वं त्वं पूषन् अपाकुरु  
केन्द्रीय विद्यालय संगठन

## **KENDRIYA VIDYALAYA THIRUVANNAMALAI**

**AUTUMN BREAK HOLIDAY HOME WORK**

**CLASS XII**

**2022-2023**

**ALL SUBJECTS**

सर्वं त्वं पूषन् अपाकुरु  
केन्द्रीय विद्यालय संगठन

### **Standard Set of Instructions to Be Followed Completing the Project:**

Always proofread your written work. Check it using the following list of rules before you submit it.

1. Staple your pages together before handing in (top left corner).
2. Use 1" or a minimum margin on all sides.
3. Number your pages (the first page of text is page 1).
4. Do not leave blank spaces between paragraphs.
5. Indent every paragraph.
6. Give your work an interesting.
7. Do not underline your own title.
8. Avoid slang expressions
9. Use a bibliography, on a separate page (Preferably Final page).
10. Correct all common spelling
11. Spell the instructor's name correctly.
12. Must be font name should be "Calibri (Body)".
13. Font Size = Header 1 ( 16 ), Header 2 ( 14 ), Header 3 ( 12 ), Body of the content (11)
14. Use the standard front/First page as given in last.
15. Use your A4 Sheet papers wisely.
16. Additional format regulations may be provided from course to course, especially concerning referencing and bibliographies

### **List of instructors:**

- |                          |                          |
|--------------------------|--------------------------|
| 1. PGT ENGLISH:          | Mr. P. KANNAN            |
| 2. PGT HINDI:            | Mrs. ROJA RAMANI         |
| 3. PGT MATHEMATICS:      | Mrs. VINOOTHINI J        |
| 4. PGT PHYSICS:          | Ms. PRIYANGA JANARDHANAM |
| 5. PGT CHEMISTRY:        | Mr. RAMESH RANGANATHAN   |
| 6. PGT BIOLOGY:          | Mrs. SUCHISMITA NAYAK    |
| 7. PGT COMPUTER SCIENCE: | Mr. PONKARTHIK R         |

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**

**AUTUMN BREAK HOLIDAY HOME WORK**

**CLASS XII English ( ANY FIVE in A4)**

1. You are Manisha of 10, Rajaji Nagar, Bangalore. You want a Maths teacher for your son who is a class 10 student. Draft a suitable advertisement in not more than 50 words stating your requirement
2. You want to sell your newly built flat. Draft a suitable advertisement in not more than 50 words to be inserted in the classified columns of 'The Hindu' giving all necessary details. You are Niranjana, 247, J.P. Nagar, Bengaluru
3. You are General Manager of Ivy Software Solutions, Agra Cantt, Agra. You need a software engineer for your organisation. Draft an advertisement in not more than 50 words to be published in 'The Times of India' under the classified columns.
4. Your younger brother aged 5 has been missing for the last three days. Draft an advertisement in not more than 50 words for the Missing Persons column of a local newspaper. You are Ram/Rama. Contact number 931070000
5. You are Ramanujam/Revathi, a student of Class XII, St. Xavier's School, Jhansi. You are interested in giving tuition in Maths to one or two students of class VIII. Draft an advertisement in not more than 50 words for a local newspaper.
6. You are Uttara/Umesh, a visually challenged person, running a telephone booth in the Central Market, Delhi. Give a suitable advertisement in not more than 50 words for a telephone operator in 'Situation Vacant' column of Delhi Times, offering attractive remuneration.
7. You have lost your leather wallet containing your Examination Entry Ticket for Class XII while travelling by bus from Banashankari to M.G.Road in Bangalore. Write a notice in not more than 50 words, to be published in 'Deccan Herald'.
8. You possess an acre of land in the heart of the city. You want to dispose of this property since you have decided to buy a flat. Write an advertisement to be published in a national daily, giving all the necessary details. You are Krishan of Moti Nagar, Delhi

**Title page**

Kendriya vidyalaya Thiruvannamalai

MINI PROJECT ENGLISH

Term-2

2022-2023

Topic:

Classified advertisement

Submitted by

Submitted to

Mr.P Kannan

PGT English, KV Thiruvannamalai

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**  
**MATHEMATICS (2022-2023)**  
**CLASS 12**

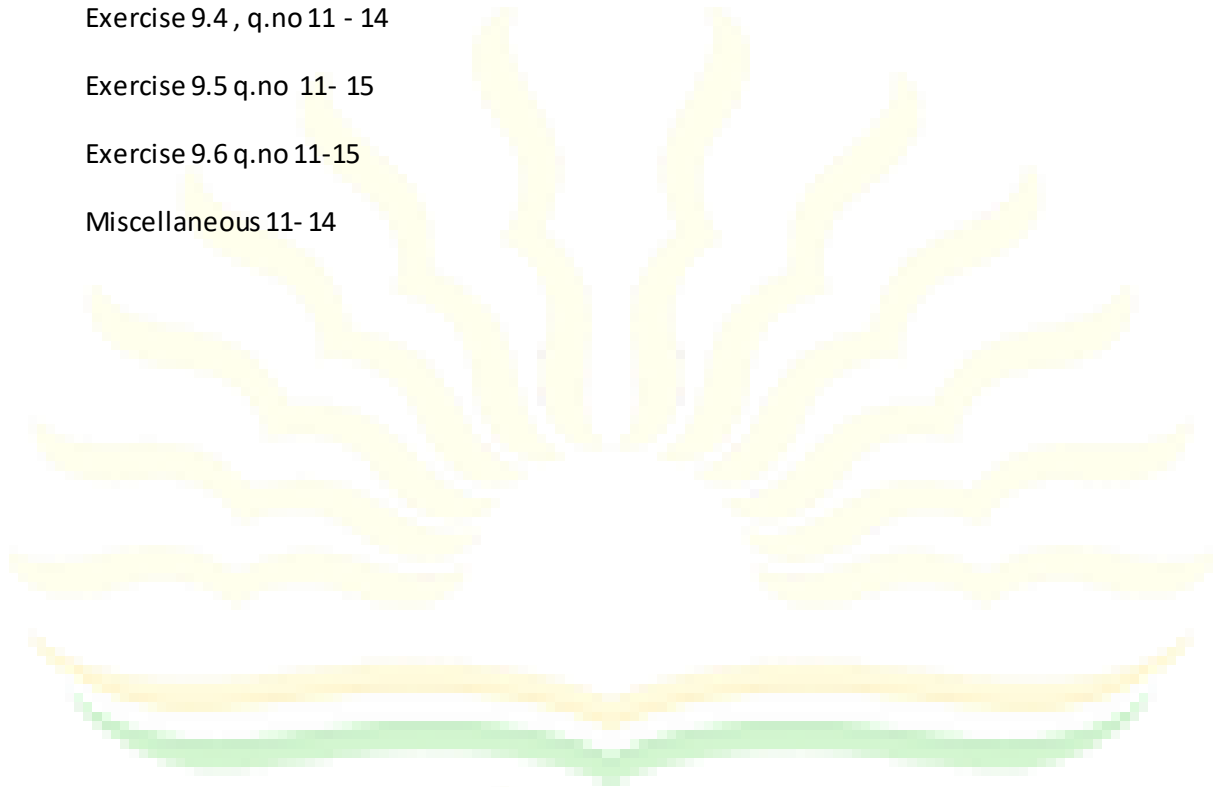
1. Complete the lab activities in record note.
2. Write an assignment(A4) in Chapter 9. differential equation.

Exercise 9.4 , q.no 11 - 14

Exercise 9.5 q.no 11- 15

Exercise 9.6 q.no 11-15

Miscellaneous 11- 14



सर्वं सर्वं सुखं अमृतम्  
केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**  
**COMPUTER SCIENCE (2022-2023)**  
**CLASS 12**  
**ART OF FOCUS**

Write a Mindfulness morning meditation program. As a rule, such program includes a list of relaxation sounds or even mantras to meditate on. Another program feature is a timer to track the meditation sessions, length and information on breathing exercises using PYTHON

**CHOOSE ANY FIVE;**

1. User login (sign up, sign in and Sign out)
2. Timer to track the meditation session
3. Length and information on breathing exercises
4. List of relaxation sounds or even mantras to meditate on
5. Digital clock
6. User management system
7. User history record (track) month or week wise list with time and duration

**Note:** As per the standard submit final projects (Min 40 pages)

सत्यं त्वं पुण्यं अमृतम्  
केन्द्रीय विद्यालय संगठन

**FIRST PAGE**



**KENDRIYA VIDYALAYA THIRUVANNAMALAI**

**COMPUTER SCIENCE MINI PROJECT 2022-2023**

**CLASS 12**

**ART OF FOCUS USING PYTHON**

**(Modules, Library, Function, File Handling and SQL)**

Submitted by

NAME:

ROLL NUMBER:

---

Submitted to

**Mr. PONKARTHIK R**  
**PGT COMPUTER SCIENCE**  
**KENDRIYA VIDYALAYA THIRUVANNAMALAI**



**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**  
**CHEMISTRY (2022-2023)**  
**CLASS 12**

**CHEMISTRY INVESTIGATORY PROJECT**

**CHOOSE ANY ONE PROJECT**

- Study of the presence of oxalate ions in guava fruit at different stages of ripening.
- Study the quantity of casein present in different samples of milk.
- Preparation of soybean milk and its comparison with natural milk with respect to curd formation, the effect of temperature, etc.
- Study of the effect of Potassium Bisulphate as a food preservative under various conditions (temperature, concentration, time, etc.)
- Study of digestion of starch by salivary amylase and effect of pH and temperature on it.
- Comparative study of the rate of fermentation of the following materials: wheat flour, gram flour, potato juice, carrot juice, etc.
- Extraction of essential oils present in Saunf (aniseed), Ajwain (carum), Illaichi (cardamom).
- Study of common food adulterants in fat, oil, butter, sugar, turmeric powder, chilli powder and pepper.

**Note:** As per the standard submit final projects (Min 30 pages)

सत्यं त्वं पुण्यं अमृतम्  
केन्द्रीय विद्यालय संगठन

**FIRST PAGE**



सत् त्वं पूषन् अपाकुरु  
केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**

**CHEMISTRY INVESTIGATORY PROJECT 2022-2023**

**CLASS 12**

Submitted by

NAME:

ROLL NUMBER:

---

सत् त्वं पूषन् अपाकुरु  
केन्द्रीय विद्यालय संगठन

Submitted to

**Mr. RAMESH RANGANATHAN**  
**PGT CHEMISTRY**  
**KENDRIYA VIDYALAYA THIRUVANNAMALAI**

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**  
**PHYSICS (2022-2023)**  
**CLASS 12**

**PHYSICS INVESTIGATORY PROJECT**

**CHOOSE ANY ONE PROJECT;**

1. To study various factors on which the internal resistance/EMF of a cell depends.
2. To study the variations in current flowing in a circuit containing an LDR because of a variation in
  - (a) the power of the incandescent lamp, used to 'illuminate' the LDR (keeping all the lamps at a fixed distance).
  - (b) the distance of an incandescent lamp (of fixed power) used to illuminate' the LDR.
3. To find the refractive indices of (a) water
  - (b) oil (transparent) using a plane mirror, an equiconvex lens (made from a glass of known refractive index) and an adjustable object needle.
4. To investigate the relation between the ratio of
  - (i) output and input voltage
  - (ii) number of turns in the secondary coil and primary coil of a self-designed transformer.
5. To investigate the dependence of the angle of deviation on the angle of incidence using a hollow prism filled one by one, with different transparent fluids.
6. To estimate the charge induced on each one of the two identical Styrofoam (or pith) balls suspended in a vertical plane by making use of Coulomb's law.
7. To study the factor on which the self-inductance of a coil depends by observing the effect of this coil, when put in series with a resistor/(bulb) in a circuit fed up by an A.C. source of adjustable frequency.
8. To study the earth's magnetic field using a compass needle -bar magnet by plotting magnetic field lines and tangent galvanometer.

**P.S The model of the project will be sent to you for reference.**

**FIRST PAGE**



सत् त्वं पूषन् अपाकुरु  
केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**

**PHYSICS INVESTIGATORY PROJECT 2022-2023**

**CLASS 12**

Submitted by

NAME:

ROLL NUMBER:

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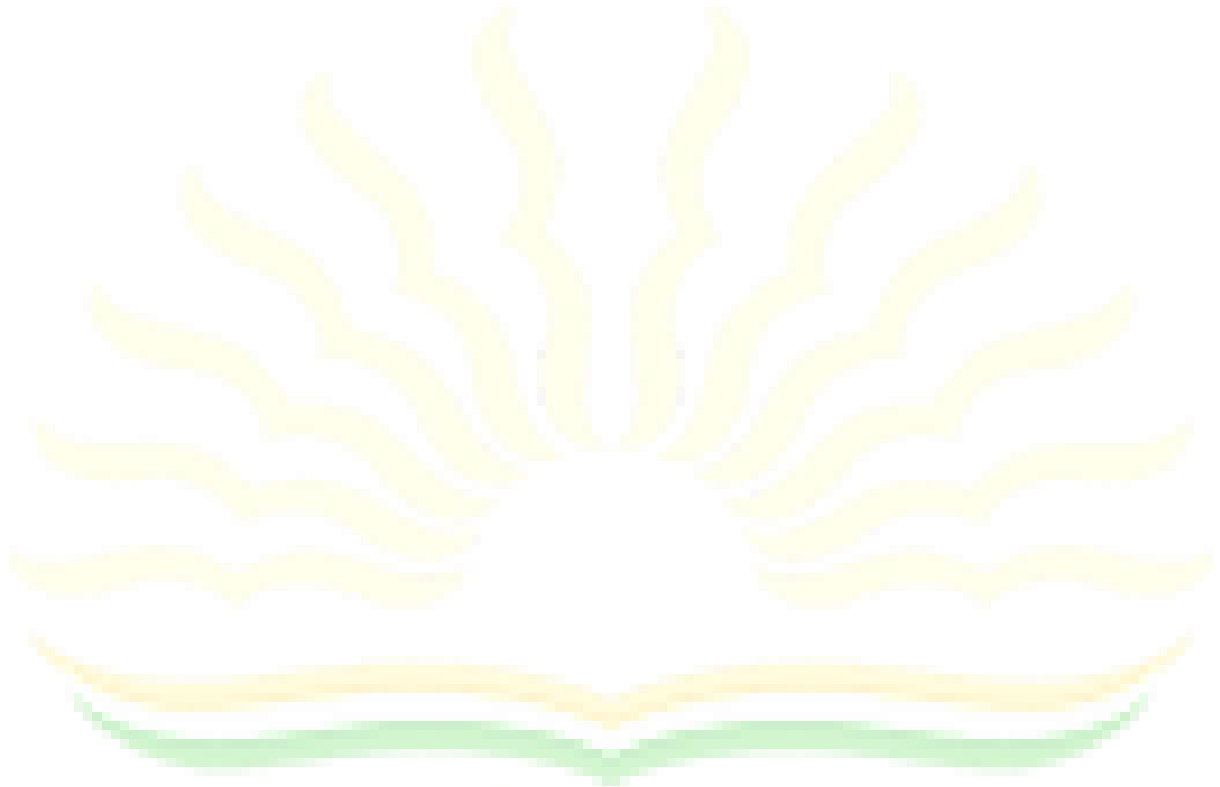
सत् त्वं पूषन् अपाकुरु  
केन्द्रीय विद्यालय संगठन

Submitted to

**Ms. PRIYANGAJANARDHANAM**  
**PGT PHYSICS**  
**KENDRIYA VIDYALAYA THIRUVANNAMALAI**

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**  
**HINDI**  
**CLASS 12**

रामायण और महाभारत पर आपका विचार 150शब्दों में लिखिए।



सर्वे स्यं सुखं अमृतम्  
केन्द्रीय विद्यालय संगठन

## KENDRIYA VIDYALAYA THIRUVANNAMALAI

### AUTUMN BREAK HOLIDAY HOME WORK

### BIOLOGY (2022-2023)

### CLASS 12

## BIOLOGY INVESTIGATORY PROJECT

### CHOOSE ANY TWO PROJECTS;

1. Study of Effect of Antibiotics on Microorganisms
2. Study of Apical Dominance in Potato and Coleus
3. Study of Pollen Structure and Calculation of Pollen Viability
4. Study of Dispersal of Seeds by Various Agencies
5. Study of Canopy Architecture of Trees
6. Study of Pollination in Sunflower and Legume
7. Comparative Study of the Chlorophyll Content in Five Different Species of Plants
8. Study of Frog/ Toad's Ovary During Breeding Season to Identify the Stages of Maturation of the Ova
9. Study of the Metamorphosis of Frog's Tadpole through Specimens
10. Study of Developmental Stages of Housefly/Cockroach
11. Study of Drug Resistance in Bacteria Using Antibiotics
12. Study of Coaguable and Non-Coaguable Milk Proteins
13. Study of Rates of Pollen Germination of Various Species in Sugar and Boron Solution
14. Study of the Effect of Avenue Trees on Temperature Under Canopy and Outside

NOTE: As per the standard submit final projects (Min 15 pages)

केन्द्रीय विद्यालय संगठन

**FIRST PAGE**



सत् त्वं पूषन् अपाकुरु  
केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**

**BIOLOGY MINI PROJECT 2022-2023**

**CLASS 12**

Submitted by

NAME:

ROLL NUMBER:

---

सत् त्वं पूषन् अपाकुरु  
केन्द्रीय विद्यालय संगठन

Submitted to

**Mrs. SUCHISMITA NAYAK**  
**PGT BIOLOGY**  
**KENDRIYA VIDYALAYA THIRUVANNAMALAI**



सत् त्वं पूषन् अपाङ्गुन्  
केन्द्रीय विद्यालय संगठन

## KENDRIYA VIDYALAYA THIRUVANNAMALAI

AUTUMN BREAK HOLIDAY HOME WORK

CLASS XI

2022-2023

ALL SUBJECTS

सत् त्वं पूषन् अपाङ्गुन्  
केन्द्रीय विद्यालय संगठन



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| 6. PGT BIOLOGY:          | Mrs. SUCHISMITA NAYAK    |
| 7. PGT COMPUTER SCIENCE: | Mr. PONKARTHIK R         |

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**

**AUTUMN BREAK HOLIDAY HOME WORK**

**CLASS –XI ( ANY FIVE in A4)**

9. You are Manisha of 10, Rajaji Nagar, Bangalore. You want a Maths teacher for your son who is a class 10 student. Draft a suitable advertisement in not more than 50 words stating your requirement
10. You want to sell your newly built flat. Draft a suitable advertisement in not more than 50 words to be inserted in the classified columns of 'The Hindu' giving all necessary details. You are Niranjan, 247, J.P. Nagar, Bengaluru
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**Title page**

Kendriya vidyalaya Thiruvannamalai

MINI PROJECT ENGLISH

Term-2

2022-2023

Topic:

Classified advertisement

Submitted by

Submitted to

Mr.P Kannan

PGT English,

KV Thiruvannmalai

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**

**AUTUMN BREAK HOLIDAY HOME WORK**

**MATHEMATICS (2022-2023)**

**CLASS 11**

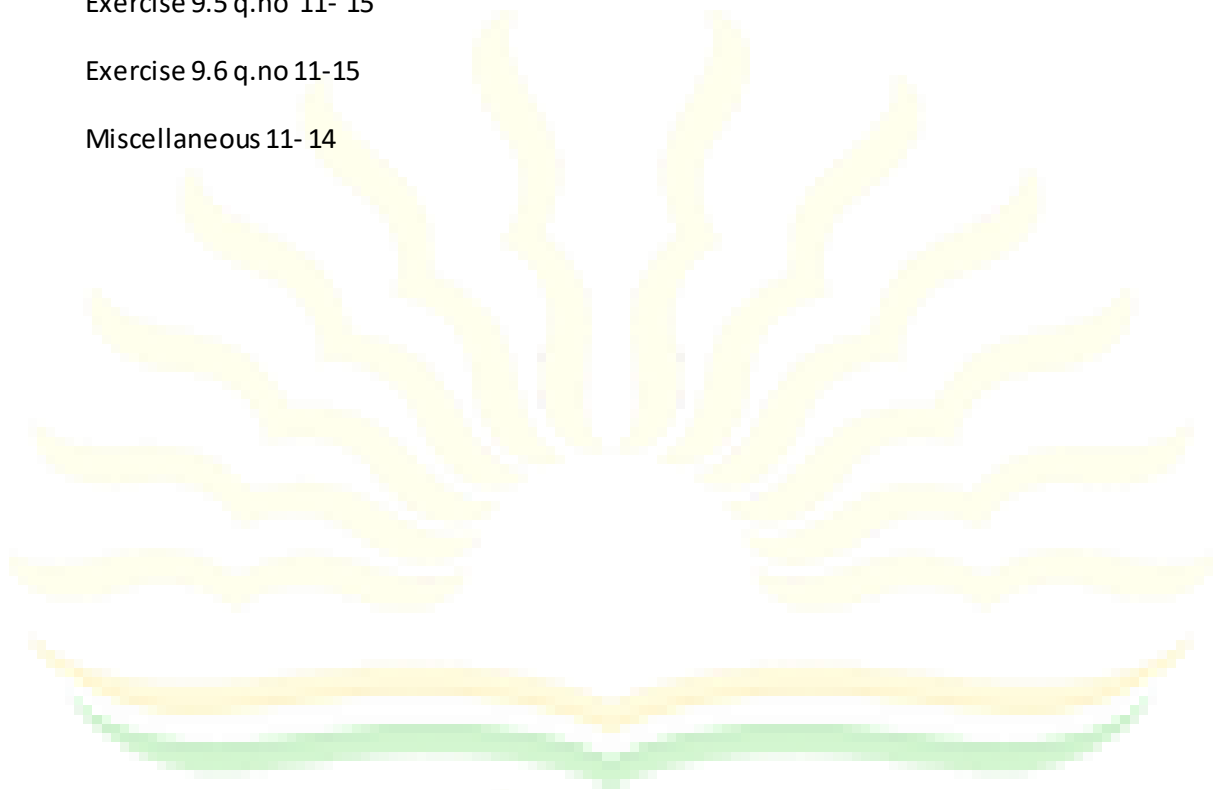
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Miscellaneous 11- 14



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केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**  
**COMPUTER SCIENCE**  
**CLASS 11**

**ALL NUMBER SYSTEM CONVERSION USING PYTHON WITHOUT FUNCTIONS**

**The number system in python is represented using the following four systems:**

- Binary Number System (base or radix =2)
- Octal Number System (base or radix = 8)
- Decimal Number System (base or radix = 10)
- Hexadecimal Number System (base or radix = 16)

**FIRST PAGE**



**KENDRIYA VIDYALAYA THIRUVANNAMALAI**

**COMPUTER SCIENCE MINI PROJECT 2022-2023**

**CLASS 11**

**ALL NUMBER SYSTEM CONVERSION  
(Using PYTHON)**

Submitted by

NAME:

ROLL NUMBER:

---

Submitted to

**Mr. PONKARTHIK R  
PGT COMPUTER SCIENCE  
KENDRIYA VIDYALAYA THIRUVANNAMALAI**

## KENDRIYA VIDYALAYA THIRUVANNAMALAI

### AUTUMN BREAK HOLIDAY HOME WORK

### CHEMISTRY (2022-2023)

### CLASS 11

#### **HIGH ORDER THINKING QUESTIONS FROM SOME BASIC CONCEPTS AND ATOMIC STRUCTURE**

#### **WRITE ANY 8 QUESTION FROM FOLLOWING;**

1. Vitamin C is found in citrus fruits, or it can be obtained from dietary supplements such as vitamin C tablets. Calculate the empirical formula for vitamin C, which is 40.9% C, 54.5% O and 4.58% H by mass. Use the fact that molar mass of vitamin C is 176 g/mol to determine the molecular formula for vitamin C.
2. The crystal of copper Sulphate contain five water molecules and the formula is written as  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ . Calculate the molarity of a solution prepared by dissolving 1.25 g of this compound is enough water to give 50 ml of solution
3. A sample of blood serum is tested and found to contain a total uric acid concentration of 4.2 mg/dL. How many grams of uric acid are present in 0.025 L of this serum?
4. The ionization energy of hydrogen atom (in ground state) is  $x$  kJ. Find the energy required for an electron to jump from second to third energy level.
5. An element of atomic weight  $Z$  consists of two isotopes of mass number  $Z-1$  and  $Z+2$ , Calculate the percentage of higher isotope.
6. Calculate total number of electrons in 1 mol of  $\text{CH}_4$ .
7. In Millikan's experiment static electric charge on the oil drops has been obtained by shining X-ray. If the static charge on the oil drop is  $-1.282 \times 10^{-18} \text{C}$ . Calculate the number of electrons present in it.
8. An ion with mass number 37 possess 1 unit of negative charge. If the ion contains 31.7% more Neutrons than the electrons, find the symbol of ion
9. Neon gas is generally used in sign board. If it emits at 616 nm, calculate the frequency of emission, distance travelled by this radiation in 30 seconds, energy of quantum and number of

quanta present if it produces 2 J of energy.

10. What transition in hydrogen spectrum would have the same wavelength as the Balmer Transition  $n=4$  to  $n=2$  of  $\text{He}^+$  spectrum?

11. If the density of methanol is 0.793 kg/L. What is its volume needed for making 2.5 L of its 0.25 M solution?

12. Hydrogen gas is prepared in the laboratory by reacting dil HCl with granulated zinc.

Following reaction takes place;  $\text{Zn} + 2\text{HCl} \rightarrow \text{ZnCl}_2 + \text{H}_2$

Calculate the volume of hydrogen gas liberated at STP when 32.65g of zinc reacts with dil HCl.

1 mol of a gas occupies 22.7L volume at STP. (atomic mass of zinc=65.3u)

Calculate the moles of NaOH required to neutralize the solution produced by dissolving

13. If electromagnetic radiation with energy of 1166 KJ/mol was absorbed by a mole of hydrogen atoms in their lowest energy state, what would be the resulting energy of the hydrogen atoms? What would be the resulting energy level?



सत्यं त्वं धृष्यन् अमृतम्  
केन्द्रीय विद्यालय संगठन

**FIRST PAGE**



सत् त्वं पूषन् अपाकुरु  
केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**

**CHEMISTRY MINI PROJECT 2022-2023**

**CLASS 11**

Submitted by

NAME:

ROLL NUMBER:

---

Submitted to

केन्द्रीय विद्यालय संगठन

**Mr. RAMESH RANGANATHAN**  
**PGT CHEMISTRY**  
**KENDRIYA VIDYALAYA THIRUVANNAMALAI**

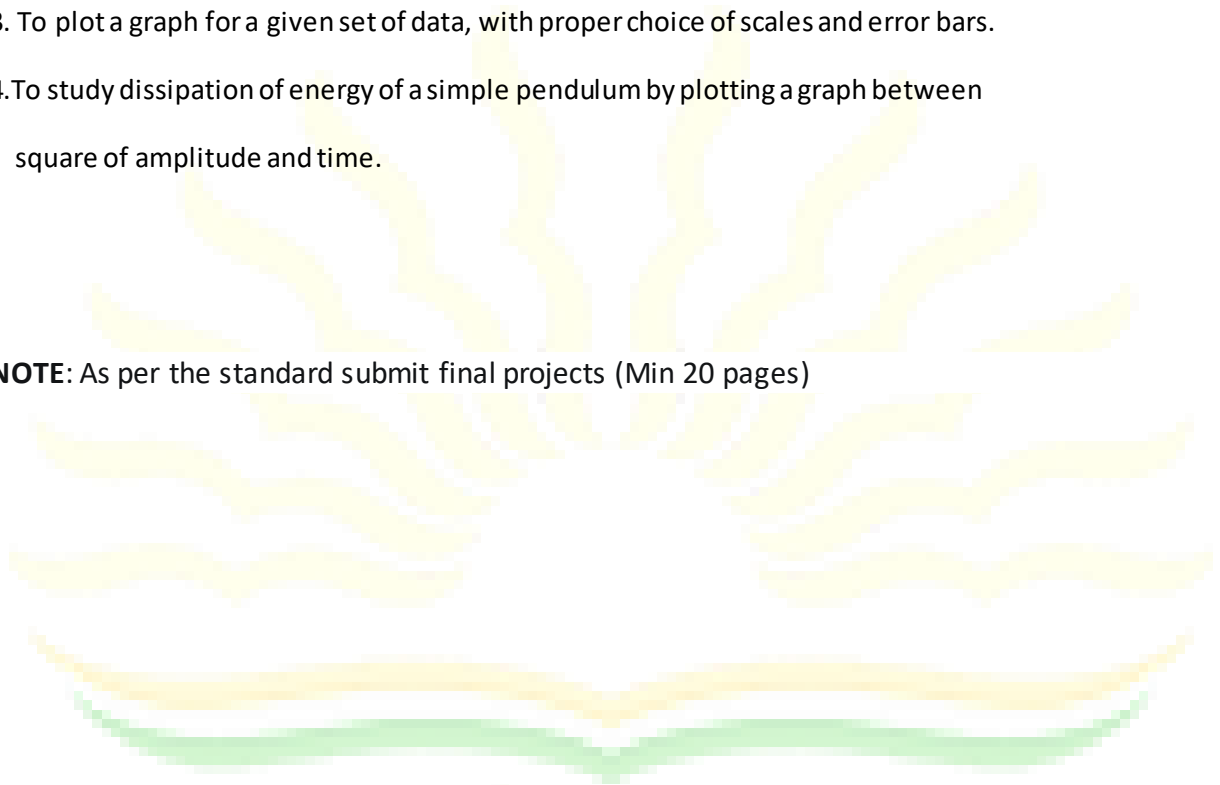


**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**  
**PHYSICS (2022-2023)**  
**CLASS 11**

**MINI PROJECT**

- 1.To make a paper scale of given least count, e.g., 0.2cm, 0.5 cm.
2. To determine mass of a given body using a metre scale by principle of moments.
3. To plot a graph for a given set of data, with proper choice of scales and error bars.
- 4.To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time.

**NOTE:** As per the standard submit final projects (Min 20 pages)



सर्वे स्यं सुखं अमृतम्  
केन्द्रीय विद्यालय संगठन

**FIRST PAGE**



सत् त्वं पूषन् अपाकुरु  
केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**

**PHYSICS MINI PROJECT 2022-2023**

**CLASS 11**

Submitted by

NAME:

ROLL NUMBER:

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सत् त्वं पूषन् अपाकुरु  
केन्द्रीय विद्यालय संगठन

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**PGT PHYSICS**  
**KENDRIYA VIDYALAYA THIRUVANNAMALAI**

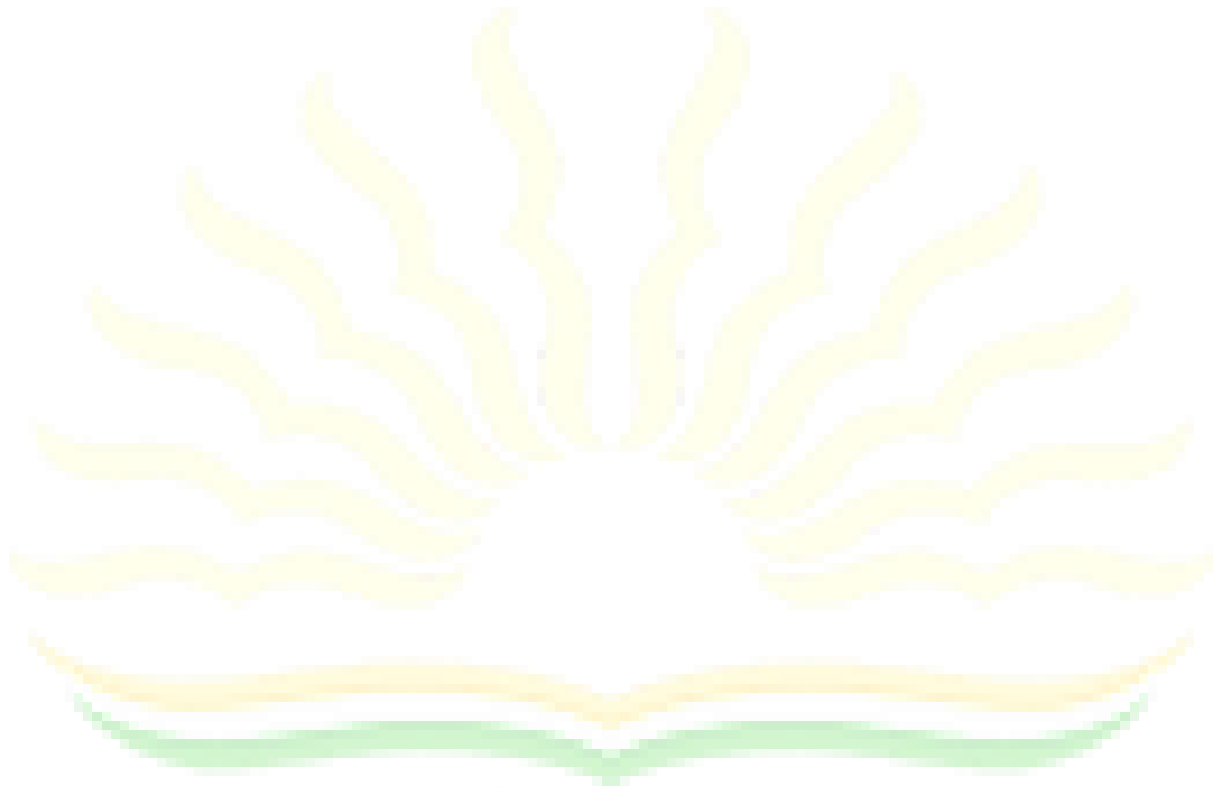
## KENDRIYA VIDYALAYA THIRUVANNAMALAI

### AUTUMN BREAK HOLIDAY HOME WORK

HINDI

CLASS 11

इंटरनेट में विद्यार्थियों के रुचि पर अनुच्छेद लिखिए  
कुल 100शब्दों में



सर्वं सर्वं सुखं समाप्तुम्  
केन्द्रीय विद्यालय संगठन

## KENDRIYA VIDYALAYA THIRUVANNAMALAI

AUTUMN BREAK HOLIDAY HOME WORK

BIOLOGY (2022-2023)

CLASS 11

### BIOLOGY INVESTIGATORY PROJECT

**CHOOSE ANY TWO PROJECTS;**

- Mitosis in Onion Root Tip Cells
- DNA Fingerprinting
- Effect of Antibiotics on Microorganisms
- Drug Addiction
- Transpiration of Plants
- AIDS

NOTE: As per the standard submit final projects (Min 10 pages)

सत्यं त्वं वृषन् अपत्युन्  
केन्द्रीय विद्यालय संगठन

**FIRST PAGE**



सत् त्वं पूषन् अपाकुरु  
केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**

**BIOLOGY MINI PROJECT 2022-2023**

**CLASS 11**

Submitted by

NAME:

ROLL NUMBER:

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सत् त्वं पूषन् अपाकुरु  
केन्द्रीय विद्यालय संगठन

Submitted to

**Mrs. SUCHISMITA NAYAK**

**PGT BIOLOGY**

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**



# **KENDRIYA VIDYALAYA THIRUVANNAMALAI**

**AUTUMN BREAK HOLIDAY HOME WORK**

**CLASS X**

**ACADEMIC YEAR (2022-2023)**

**ALL SUBJECT**

सत्यं त्वं पूषन् अपत्युन्  
केन्द्रीय विद्यालय संगठन

<b>KENDRIYA VIDYALAYA THIRUVANNAMALAI</b>		
<b>AUTUMN BREAK HOLIDAY HOME WORK</b>		
<b>CLASS -X</b>		
<b>SUBJECT- ENGLISH</b>		
<p>1. The present generation is intelligent and smart but at the same time they have the following challenges just in front of them to face. On the basis of the inputs given below prepare a mini project on each point in 400-500 words. ( in A4 only)</p> <p>I. Climate change                      II. Debt                      III. Drugs                      IV. Economy]                      V. Technology addiction                      VI. Racism and discrimination                      VII. Wage inequality                      VIII. Waging war with teachers and parents.</p>		
<p><b>Title page</b>                      Kendriya vidyalaya                      Thiruvannamalai                      MINI PROJECT ENGLISH                      Term-2                      2022-2023</p> <p>Topic:                      The present generation is intelligent and smart but at the same time they have the challenges just in front of them to face.</p> <p>Submitted by</p> <hr/> <p>Submitted to</p> <p>Mr. P Kannan                      PGT English                      KV Thiruvannmalai</p>	<p>Second page:</p> <p style="text-align: center;"><b><u>Certificate</u></b></p> <p>The project is completed by me on my own. I have not copied the project from my class mates. I spared my valuable time for the project and finally completed the project.</p> <p>Name of the student:</p> <p>Roll No:</p> <p>Sign of the student:</p>	<p>Last page:</p> <p style="text-align: center;"><b><u>Bibliography</u></b></p> <p>Primary source:</p> <p>Secondary source:</p>

## KENDRIYA VIDYALAYA THIRUVANNAMALAI

### AUTUMN BREAK HOLIDAY HOME WORK

#### HINDI & SANSKRIT

#### CLASS X

#### HINDI :

हिन्दी अवकाश गृहकार्य

❖ हर वाच्य पर 10 नई शब्द बनाइए।

(कर्म वाच्य, भाव वाच्य, निपात )

❖ प्रतिदिन एक पेज सुलेख लेखन लिखिए।

#### SANSKRIT :

लिखति बुद्धिर् बलवति सदा

#### MATHEMATICS :

Write all the properties and formulas used in first 10 chapters

केन्द्रीय विद्यालय संगठन



**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**  
**CLASS X**  
**SCIENCE**

1. Why does carbon form compounds mainly by covalent bonding?
2. Define Allotropy. Give examples
3. Draw the Lewis dot structures for the following molecules  
a. NH<sub>3</sub>      b. H<sub>2</sub>S      c. PH<sub>3</sub>      d. C<sub>2</sub>H<sub>6</sub>      e. PCl<sub>5</sub>      f. F<sub>2</sub>
4. Count the number of covalent bonds present in the above molecules.
5. Write the differences between binary fission and multiple fission?
6. Explain budding in hydra with the help of diagrams.
7. Draw the diagram of fertilization in flowering plant and label the parts.
8. Draw a labelled diagram of the longitudinal section of a flower.
9. Define the following terms for spherical mirrors:
  - a) Pole
  - b) Centre of curvature
  - c) Radius of curvature
  - d) Principal axis
  - e) Focus of the mirror
10. Write the laws of reflection of light?
11. Write about spherical mirrors?
12. Write the rules for both concave and convex mirrors to draw ray diagrams?
13. Draw the ray diagrams for the image formation by a concave mirror?

**PROJECT**

Prepare flash cards of any ten elements highlighting their symbol atomic number, atomic mass electronic configuration and electron dot structures.

(USE THE SAME COVER PAGE AS GIVEN BELOW)

FIRST PAGE



तत् त्वं पूषन् अपायुन्  
केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**

**SCIENCE MINI PROJECT**

**ACADEMIC YEAR (2022-2023)**

**CLASS X**

Submitted by

NAME:

ROLL NUMBER:

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Submitted On:

Submitted to:

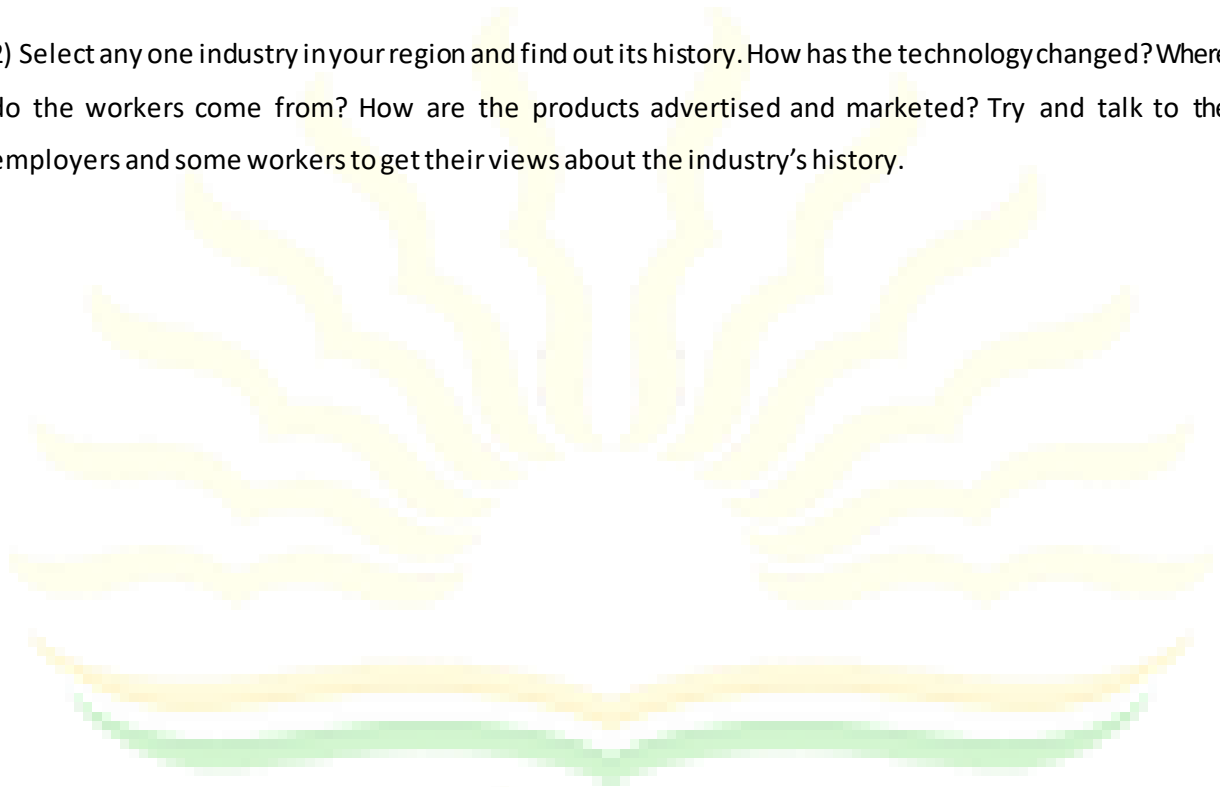
**Mr. RAMESH RAGANATHAN**  
PGT CHEMISTRY

**Mrs. SUCHISMITA NAYAK**  
PGT BIOLOGY

**Ms. PRIYANGA JANARDHANAM**  
PGT PHYSICS

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**  
**CLASS X**  
**SOCIAL SCIENCE**

- 1) Find out more about gold and diamond mining in South Africa in the nineteenth century. Who controlled the gold and diamond companies? Who were the miners and what were their lives like?
- 2) Select any one industry in your region and find out its history. How has the technology changed? Where do the workers come from? How are the products advertised and marketed? Try and talk to the employers and some workers to get their views about the industry's history.



सत्यं त्वं वृषन् अमृतम्  
केन्द्रीय विद्यालय संगठन



सत्यं त्वं पूषन् अपावृणु  
केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**

**CLASS IX**  
**ACADEMIC YEAR (2022-2023)**

**ALL SUBJECTS**

सत्यं त्वं पूषन् अपावृणु  
केन्द्रीय विद्यालय संगठन

**Standard Set Of Instructions To Be Followed Completing The Home Work:**

Always proofread your written work. Check it using the following list of rules before you submit it.

1. Staple your pages together before handing in (top left corner).
2. Use 1" or a minimum margin on all sides.
3. Number your pages (the first page of text is page 1).
4. Do not leave blank spaces between paragraphs.
5. Indent every paragraph.
6. Give your work an interesting.
7. Do not underline your own title.
8. Avoid slang expressions
9. Use a bibliography, on a separate page (Preferably Final page).
10. Correct all common spelling
11. Spell the instructor's name correctly.
12. Don't use decorative front covers for any of the subject.
13. Use the standard front/First page as given in last.
14. Use your A4 Sheet papers wisely.
15. Additional format regulations may be provided from course to course, especially concerning referencing and bibliographies

**List of instructors:**

- |                     |                          |
|---------------------|--------------------------|
| 1. PGT English:     | Mr. P. Kannan            |
| 2. PGT Hindi:       | Mrs. Roja Ramani         |
| 3. PGT Sanskrit:    | Mr. Dhruvan              |
| 4. PGT Mathematics: | Mrs. Vinothini J         |
| 5. PGT Physics:     | Ms. Priyanga Janardhanam |
| 6. PGT Chemistry:   | Mr. Ramesh Ranganathan   |
| 7. PGT Biology:     | Mrs. Suchismita Nayak    |
| 8. TGT Social:      | Mr. Prabhudevan          |

<b>KENDRIYA VIDYALAYA THIRUVANNAMALAI</b>		
<b>AUTUMN BREAK HOLIDAY HOME WORK</b>		
<b>CLASS – IX</b>		
<b>SUBJECT- ENGLISH</b>		
<p>1. The present generation is intelligent and smart but at the same time they have the following challenges just in front of them to face. On the basis of the inputs given below prepare a mini project on each point in 400-500 words. (in A4 only)</p> <p>I. Climate change                      II. Debt                      III. Drugs                      IV. Economy]                      V. Technology addiction                      VI. Racism and discrimination                      VII. Wage inequality                      VIII. Waging war with teachers and parents.</p>		
<p><b>Title page</b></p> <p style="text-align: center;">Kendriya vidyalaya Thiruvannamalai MINI PROJECT ENGLISH Term-2 2022-2023</p> <p style="text-align: center;">Topic: The present generation is intelligent and smart but at the same time they have the challenges just in front of them to face.</p> <p style="text-align: center;">Submitted by</p> <hr style="width: 50%; margin: 10px auto;"/> <p style="text-align: center;">Submitted to  Mr. P Kannan PGT English KV Thiruvannmalai</p>	<p><b>Second page:</b></p> <p style="text-align: center;"><u><b>Certificate</b></u></p> <p>The project is completed by me on my own. I have not copied the project from my class mates. I spared my valuable time for the project and finally completed the project.</p> <p>Name of the student:</p> <p>Roll No:</p> <p>Sign of the student:</p>	<p><b>Last page:</b></p> <p style="text-align: center;"><u><b>Bibliography</b></u></p> <p>Primary source:</p> <p>Secondary source:</p>

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**

**AUTUMN BREAK HOLIDAY HOME WORK**

**HINDI & SANSKRIT**

**CLASS IX**

**SUBJECT: HINDI**

1.आपकी यात्रा अनुभव पर अनुच्छेद लिखिए। 50 से 100 शब्दों में लिखना जरूरी है।

**SUBJECT: SANSKRIT (FOR CLASS 9B ONLY)**

Write स्वर्णकाकः पाठ अभ्यास

सर्वे सर्वं कुरुते  
केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**  
**MATHEMATICS**  
**CLASS IX**

**Solve the following Numerical :**

1. Write the lab activity which is shared in WhatsApp group.
2. Show that the points A (1, 2), B (– 1, – 16) and C (0, – 7) lie on the graph of the line equation  $y = 9x - 7$ .
3. The following observed values of x and y are thought to satisfy a linear equation.

Write the linear equation

X	6	-6
Y	-2	6

Draw the graph using the values of x, y as given in the above table.

At what points the graph of the linear equation (i) cuts the x-axis (ii) cuts the y-axis

4. Find  $(2x - 3y)^3 + (4z - 2x)^3 + (3y - 4z)^3$
5. Find  $a^{12} + b^{12}$ .



## KENDRIYA VIDYALAYA THIRUVANNAMALAI

### AUTUMN BREAK HOLIDAY HOME WORK

#### SCIENCE

#### CLASS IX

#### I. Solve The Following Problems (Physics)

1. Suppose you walk across a room of length with a velocity of one and a half kilometer per hour.

Express this velocity in m/s and find the time you will take to move across the room.

2. A car travels 30km at a uniform speed of 40 km/h and the next 30 km at a uniform speed of 20 km/h.

Find its average speed.

3. A train travels at 60km/h for 0.52 h; at 30 km/h for the next 0.24 h and at 70 km/h for the next 0.71 h.

What is the average speed of the train?

4. A scooter acquires a velocity of 36 km/h in 10 second just after the start. It takes 20 second to stop.

Calculate the acceleration in two cases?

5. A moving train is brought to rest within 20 second by applying brakes. Find the initial velocity, if the

Retardation due to brakes 2 m/s.

#### II. Subject: Biology

1. What are macro-nutrients and why are they called macro- nutrients?

2. How do plants get nutrients?

#### III. Subject: Chemistry

1. Draw the Modern periodic table.

2. Write the first 30 elements Name, Symbols, Atomic number and Mass Number.

## KENDRIYA VIDYALAYA THIRUVANNAMALAI

### AUTUMN BREAK HOLIDAY HOME WORK

#### SOCIAL SCIENCE

#### CLASS IX

**Prepare a collage in A4 Size Paper Magazine of various events of India's freedom struggle such as Hint: -**

- (1) Revolt of 1857
- (2) Non Co-operation Movement
- (3) Civil Disobedience Movement
- (4) Dandi March
- (5) Leaders of Freedom Struggle
- (6) Women Leaders of freedom struggle
- (7) Any other event of the Freedom struggle



सर्वे सन्धे पुण्यं अमृतम्  
केन्द्रीय विद्यालय संगठन

FIRST PAGE



सर्वं त्वं पूषन् अपाकुरु  
केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**

**AUTUMN BREAK HOLIDAY HOME WORK**  
**ACADEMIC YEAR (2022-2023)**

**CLASS IX**

Submitted by  
NAME:  
ROLL NUMBER:

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Submitted On:

Submitted to:

Mr/Ms/Mrs. \_\_\_\_\_

PGT/TGT \_\_\_\_\_

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**



# **KENDRIYA VIDYALAYA THIRUVANNAMALAI**

**AUTUMN BREAK HOLIDAY HOME WORK**

**CLASS VIII**

**ACADEMIC YEAR (2022-2023)**

**ALL SUBJECTS**

सत्यं त्वं पूषन् अपत्युन्  
केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**  
**CLASS VIII**

- ENGLISH :**
1. Make a picture dictionary for 30 words.
  2. Write a paragraph about the places you like to visit

**हिंदी (HINDI):**आपका प्रिय खेल पर एक अनुच्छेद लिखिए।  
एवं प्रतिदिन 5 नया शब्द अर्थ के साथ लिखिए।

**SANSKRIT:** Write बिलस्य वाणी न कदापि में श्रुता lesson only

**SOCIAL SCIENCE :**

- 1) Write the names of different political parties with their symbols on A4 sheet.
- 2) Write short note on salient features of constitution.

**MATHEMATICS:**

1. Write all the properties and formulas used in first 8 chapters.
2. Write the Square table up to Square of 25
3. Write Cube table up to cube of 15

**SCIENCE :**

1. How can you contribute to the maintenance of green wealth of your locality? Make a list of action to be taken by you.
2. Find out about national parks and wildlife sanctuary in your state. Identify and show their location on the outline map in India.



सत्यं त्वं पूषन् अपावृणु  
केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**

**CLASS VII**  
**ACADEMIC YEAR (2022-2023)**

**ALL SUBJECTS**

सत्यं त्वं पूषन् अपावृणु  
केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**  
**CLASS VII**

● ENGLISH :

Prepare a dictionary having minimum five new words of each alphabet with meaning to enhance the vocabularies. Cover it with beautiful cover and put a book mark in that.

● HINDI :

रोज एक पेज सुलेख लेखन लिखिए। एवं प्रतिदिन 10 नई शब्द लिखिए।

● SANSKRIT:

Write दुर्बुधदि: विनाशयति lesson

● SCIENCE :

What is soil and write the types of soil briefly.

● SOCIAL SCIENCE :

Write about any three national leaders and their contributions to Indian independence movement.

● MATHS:

○ Write all the properties and formula used in first 8 chapters.

○ Write the Square table up to Square of 25



सत्यं त्वं पूषन् अपावृणु  
केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**

**CLASS VI**  
**ACADEMIC YEAR (2022-2023)**

**ALL SUBJECTS**

सत्यं त्वं पूषन् अपावृणु  
केन्द्रीय विद्यालय संगठन



**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**  
**CLASS VI**

**English:**

Collect 5 different advertisement of Indian brands from newspaper or magazine and paste it in A4 sheet.

**Hindi:** प्रतिदिन एक पेज सुलेख लेखन लिखिए।

**Sanskrit:** write प्रथमपाठः, द्वितीय पाठः

**Science:** Write common characteristics of living things briefly.

**Social Science:**

Draw a sketch of your school and locate the following:

- \* Principals Room
- \* Your Classroom
- \* The Playground
- \* Drinking Water

**Mathematics:**

Write the definition of natural numbers, whole numbers, even numbers, odd numbers, prime numbers, composite numbers with examples.

केन्द्रीय विद्यालय संगठन



सत्यं त्वं पूषन् अपावृणु  
केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**

**CLASS V**  
**ACADEMIC YEAR (2022-2023)**

**ALL SUBJECTS**

सत्यं त्वं पूषन् अपावृणु  
केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**  
**CLASS V**

**HINDI:**

नवरात्रि के बारे में लिखिए चित्र सहित।

Daily write one-page handwriting in Hindi.  
(write in class work note)

**ENGLISH:**

- Paste different types of tourist palace picture. Write down ten line about any one of them.
- Read two moral story and practice it for story narration in the class.
- Read daily English newspaper and search 10 words in dictionary.
- Write one-page handwriting daily. (write in class work note)

**MATHS:**

Draw floor map and deep drawing of your house. Mark windows and doors.

**EVS:**

Paste the pictures of festival. Write the state in which it is celebrated and the food items prepared during the festival.

सत्यं त्वं पुण्यं अमृतम्  
केन्द्रीय विद्यालय संगठन



सत्यं त्वं पूषन् अपावृणु  
केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**

**CLASS IV**  
**ACADEMIC YEAR (2022-2023)**

**ALL SUBJECTS**

सत्यं त्वं पूषन् अपावृणु  
केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**  
**CLASS IV**

**ENGLISH:** I) Write 10 lines on 'My ambition in life'

II) Write 2 pages everyday on your Hand writing note book (4 lines note)

(You may write the poem or prose lines)

**HINDI:** Make a small picture dictionary in Hindi.

**MATHS:** Make a model of weighing scale/Hand balance.

**EVS:** Paste the pictures of bird's beaks and write their names. (Any 10)

सत्यं त्वं वृषन् अपत्यम्  
केन्द्रीय विद्यालय संगठन



सत्यं त्वं पूषन् अपावृणु  
केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**

**CLASS III**  
**ACADEMIC YEAR (2022-2023)**

**ALL SUBJECTS**

सत्यं त्वं पूषन् अपावृणु  
केन्द्रीय विद्यालय संगठन

**KENDRIYA VIDYALAYA THIRUVANNAMALAI**  
**AUTUMN BREAK HOLIDAY HOME WORK**  
**CLASS III**

**English:**

- Practise cursive handwriting 1 page every day.
- Write 5 lines about your favourite animal.

**Hindi:**

- Write 5 pages of handwriting.
- Read one page every day from your textbook and write the new words.
- Learn and write numbers from 1-50

**Maths:**

- Learn and write tables from 2 -10

**EVS:**

- Write 5 indoor and outdoor games.
- Make a post card with chart paper

सर्वे सन्तु सुखिनः समस्तान्  
केन्द्रीय विद्यालय संगठन



# KENDRIYA VIDYALAYA THIRUVANNAMALAI

## CERTIFICATE

This is to certify that Ms/Mr. \_\_\_\_\_ of class XII Science of section A with Roll No: \_\_\_\_\_ has successfully completed her \_\_\_\_\_ Project \_\_\_\_\_

\_\_\_\_\_ She has taken proper care and utmost sincerity in completion of her project. All the works related to the project was done by the candidate \_\_\_\_\_. The approach towards the subject has been sincere and scientific.

I Certify that the project is up to my expectation and as per the guidelines issued by CBSE.

**EXTERNAL EXAMINER**

**INTERNAL EXAMINER**

**PRINCIPAL**





## KENDRIYA VIDYALAYA THIRUVANNAMALAI

### ACKNOWLEDGEMENT

It would be my utmost pleasure to express my sincere thanks to my Principal **Smt. Dr. Reema Stella Jayachandran** Madam for her valuable guidance and motivation. I would also give my sincere thanks to my \_\_\_\_\_ Teacher Ms/Mrs/Mr. \_\_\_\_\_ Sir/Madam, for providing a helping hand in this project. His/Her valuable guidance, support and supervision all through this project titled \_\_\_\_\_

Are responsible for attaining its present form. This project has been made not only for fetching marks but also for my knowledge. I would like to thank my parents for their motivation and support. At last I thank fellow friends for their timely help for the successful completion of this project.

SIGNATURE OF THE STUDENT