



SUMMER HOLIDAY HOMEWORK, MAY-JUNE 2023 CLASS - X

1. ENGLISH

TYPE-1

MULTI DISCIPLINARY PROJECTS

TOPIC: FOOD & NUTRITION (WE ARE WHAT WE EAT)

(Attempt any five of the following)

Q1. Write a dialogue between a nutritionist and a school going child on the Harmful Effects of obesity.

TOPIC: ENVIRONMENT AND YOU

Q2. Write a poem in not more than 15 lines on Environment with illustrations.

TOPIC: Architectural Wonders of India

Q3. Write an Article on the topic "Monuments are Country's Beauty and Preserving them is Our Duty."

TOPIC: Natural Disasters

Q4. Man has been messing up with nature which has led to catastrophes like earthquake, tsunami, floods etc. Prepare a Talk show highlighting the same.

TOPIC: Rivers of India

Q5. Write a skit on the topic: Save Ganga.

TOPIC: Heal the World-Make it a better place

Q6. Corporate social Responsibility (CSR) is an important aspect of business today. Choose three prominent industrialists of India and write about the work done by them in their field.

TOPIC: Water is wonderful when you don't waste it

Q7. Write a script on -Water is wonderful.

TOPIC : Ayurveda and Naturopathy

Q8. Interview some of the people who were suffering from various ailments and practiced yoga. How yoga helped them get rid of various ailments. Write the interview.

TOPIC: Journey of Cinema

Q9. Choose any template of film review and write the review of the film chosen by you. (Science Fiction or Adventure)

TOPIC: Advertisement and Publicity

Changing face of sports in India

Q11. Choose biopics of two sports personalities and write your reviews about them. Include pictures and illustrations.

TYPE-II

II. ART INTEGRATION PROJECT (Attempt any two)

TOPIC: FOOD & NUTRITION (WE ARE WHAT WE EAT)

Q1. Make a poster on the topic-Healthy Food and a Balanced Diet

TOPIC: Rivers of India

Q2. Prepare an advertisement on RAFTING IN ZANSKAR RIVER.

TOPIC: Water is wonderful when you don't waste it

Q3. Prepare a Poster on Water conservation.

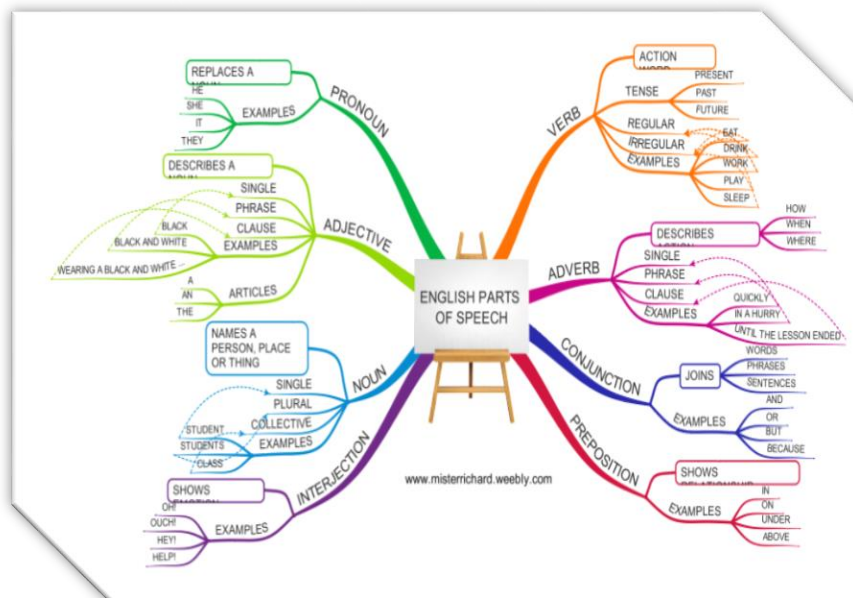
TOPIC: Advertisement and Publicity

Q4. Make a Collage on Advertisements based on Social Issues.

TYPE-III

III. MULTIPLE ASSESSMENT (CONCEPT MAP)

An example of Concept Map on English Parts of Speech is given below. A Concept Map is a diagram that shows the relationships between ideas. This helps one understand how they're connected.



GUIDELINES TO DO HOME WORK

DEAR STUDENTS

Please follow the guidelines enlisted below for the project work. At the same time use your imagination, read, explore and think 'out of the box' to make your project unique and meaningful.

1. A synopsis of the project needs to be submitted along with the project to the respective subject teachers.
2. The project must be spiral bound.
3. It must have a **cover page**. The **title** of your project should be written on the **top in large font**.

Write "**MULTI-DISCIPLINARY PROJECT**" above the title. You may use sketches, photographs,



cartoons etc. to make the cover page attractive. Do remember to mention **your name, class and section**.

4. The pages should be in **A4 size designing sheets only**.

5. **Page 1** – should be titled “**Contents**” or “**Index**”, which would contain the page-wise breakup of the content of the project in the following pattern:

SERIAL NO.

SUBJECT PAGE NO.

1. INTRODUCTION PAGE 2

2. ACKNOWLEDGEMENTS PAGE 3

3. INTERPRETATION OF THE PROJECT

6. **Page 2-** Write an **introduction** of your project in 100-150 words. The introduction should present a complete picture of your project to make it evident for anyone to have an overall idea of the project. The language used in the abstract should be very simple.

7. **Page 3-**This page should be titled “**Acknowledgment**”, to express your gratitude for the help and cooperation given to you by any individual or organization. Remember that, you should record your thanks /gratefulness to all those who have helped you or encouraged you, it does not matter how small the help may be or who the person may be. For e.g., you could thank your teacher, mum, dad, sibling, a librarian, a neighbour etc. **This write up should preferably be of 100-150 words.**

7. You have to work on 3-4 pages.

The last page will contain a “**Bibliography**” or “**Sources**” from where you have gathered information for your project. The sources can be books, websites, TV channels, Radio channels, newspapers, museums, libraries, people you have contacted or any other source of information.

Remember to make your project informative and interesting. Use colours, pictures, illustrations wisely and wherever required. Follow the policy ‘best out of waste’. The holiday home work needs to be submitted positively on the first working day after the summer holidays.

2. SANSKRIT (वैदिक-विभागः)

1. स्व-पाकशालायाम् उपलब्ध-खाद्य- वस्तूनां नामानि तेषां पात्रेषु संस्कृते विलिख्य छायाचित्राणि A4 sheet कर्गदे संक्षेप्य आनयन्तु ।
2. स्वक्षेत्रे जायमानस्य प्रदूषणस्य कारणानि तस्य समाधानञ्च अन्विष्य एकस्यां संचिकायां (FILE) तुलनात्मकम् अध्ययनं विलिख्य (चित्र-सहितम्) प्रदर्श्य आनयन्तु ।
3. सामूहिकं यज्ञं कृत्वा सामूहिकं योगप्रशिक्षणं च दत्वा तस्य सामूहिकछायाचित्रम् एकस्मिन् A4 Sheet कर्गदे संक्षेप्य तस्य विवरणं संस्कृतेन लिखत ।
4. किम् शब्दस्य त्रिषु लिंगेषु, अस्मद् , युष्मद् शब्दानां रूपाणि स्मृत्वा संचिकायां लिखन्तु ।
5. अधोलिखित-विषयाणाम् उपरि दश-दश वाक्यानि A4 Sheet कर्गदे विलिख्य आनयत -
i) स्वच्छ-भारत-अभियानम् ii) यज्ञस्य महत्त्वम् iii) योगः आरोग्याय आवश्यकः
iv) उद्यमस्य महत्त्वम् v) सदाचारः
6. पाण्डुर्योः धार्मिकस्थलानां, संस्कृति-परम्पराणां, मुख्यपर्वणां विषये सचित्रं 250 शब्देषु वर्णनं कुरुत



7. कक्षा-V-XII (सर्वेषां कृते)

क्रम.सं.	दिनाङ्कः	अभिवादनम्	योगः	यज्ञः	भोजनमन्त्रः	संस्कृतवाक्यम्	शयनमन्त्रः	अभिभावक- हस्ताक्षरम्
1.	30.5.23							
2.	31.5.23							
3.	1.06.23							
4.	2.06.23							
5.	3.06.23							
6.	4.06.23							
7.	5.06.23							
8.	6.06.23							
9.	7.06.23							
10.	8.06.23							
11.	9.06.23							
12.	10.06.23							
13.	11.06.23							
14.	12.06.23							
15.	13.06.23							
16.	14.06.23							
17.	15.06.23							
18.	16.06.23							
19.	17.06.23							
20.	18.06.23							
21.	19.06.23							
22.	20.06.23							
23.	21.06.23							
24.	22.06.23							
25.	23.06.23							
26.	24.06.23							
27.	25.06.23							
28.	26.06.23							

धातव्य-

1. भो छात्र ! प्रतिदिन आपको उपरोक्त क्रिया कलाप अवश्य करने हैं और प्रतिनित्य अपने अभिभावकों के हस्ताक्षर इस आशय से कराने हैं कि आपने उनके समक्ष किया है ।
2. प्रतिदिन किये गये क्रिया कलाप को चित्र के माध्यम से प्रमाण सहित उपस्थित करना अनिवार्य है ।

3. INFORMATION TECHNOLOGY (FOR IT STUDENTS ONLY)

1. Create a Database named - School
2. Write steps to Create a table Student in Design view with following details.

Table – Student

Field Name	Field Type
Admno	TINYINT (Primary Key)
Name	TEXT (25)
Address	TEXT (30)
Class	TEXT (1 5)
Sec	TEXT (3)
DOB	DATE
StreamID	TINYINT (FOREIGN KEY)

3. Create a table Stream with following details:

Table – Stream

Field Name	Field Type
StreamId	TINYINT (Primary Key)
StreamName	TEXT (25) [Use to store stream - Medical, Non-Medical, Commerce and

4. Create a new relation between table Student and Stream named - Student Stream Relationship
5. Consider the the following table named "GARMENT". Write SQL command of SQL for (i) to (iv)

GCode	GName	Size	Colour	Price
111	TShirt	XL	Red	1400.00
112	Jeans	L	Blue	1600.00
113	Skirt	M	Black	1100.00
114	Ladies Jacket	XL	Blue	4000.00
115	Trousers	L	Brown	1500.00
116	Ladies Top	L	Pink	1200.00

SQL command of SQL for (i) to (iv)

- (i). To display names of those garments that are available in 'XL' size.
 - (ii). To display codes and names of those garments that have their names starting with 'Ladies'.
 - (iii). To display garment names, codes and prices of those garments that have price in the range 1000.00 to 1500.00. Both values are included.
 - (iv). To change the colour of garment with code as 116 to "Orange".
6. Create a Form – Student Entry Form, to insert the record only in student table.
 7. Create a Report to display details of all students of Non-Medical.
 8. Write key features of following instant messaging application - (a) Google Talk and (b) Telegram
 9. Write five best practices used to Ensure Confidentiality of Information.
 10. Write any five tips to manage strong passwords.
 11. List any five offline blog editors.



4. MATHEMATICS

NOTE- Use a separate notebook for holiday homework.

V. S. A. TYPE

1. Write two rational and two irrational numbers between $\sqrt{2}$ and $\sqrt{3}$.
2. Find three rational numbers lying between 0 and 0.1
3. Find LCM and HCF of a^2bc^3 and ab^3c .
4. Find the value of "p" from the polynomial $x^2 + 3x + p$, if one of the zeroes of the polynomial is 2.
5. What will be the nature of roots of quadratic equation $2x^2 + 4x - n = 0$?
6. Show that $x = -2$ is a solution of $3x^2 + 13x + 14 = 0$.
7. Find the discriminant of the quadratic equation $4\sqrt{2}x^2 + 8x + 2\sqrt{2} = 0$
8. If $ax + by = a^2 - b^2$ and $bx + ay = 0$, find the value of $(x + y)$.
9. For what value of k, the pair of equations $4x - 3y = 9$, $2x + ky = 11$ has no solution?
10. Write first four terms of the AP when the first term a and the common difference d are given as follows:
 - (i) $a = 10$, $d = 10$
 - (ii) $a = -2$, $d = 0$
 - (iii) $a = 4$, $d = -3$

S. A. TYPE I

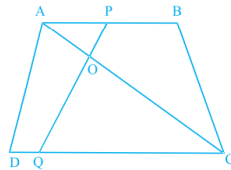
1. Calculate the area bounded by the line $x + y = 10$ and both the co-ordinate axes.
2. Find the values of k for which the quadratic equation $9x^2 - 3kx + k = 0$ has equal roots.
3. If $ax + by = a^2 - b^2$ and $bx + ay = 0$, find the value of $(x + y)$.
4. How many multiples of 4 lie between 10 and 250?
5. The sum of 4th and 8th terms of an AP is 24 and the sum of the 6th and 10th terms is 44. Find the first three terms of the AP.
6. Find the value of x for which $(5x+2)$, $(4x-1)$ and $(x+2)$ are in AP.
7. Find the 11th term from the last of the AP 10, 7, 4, -62.
8. A circular field has a circumference of 360 km. Three cyclists start together and can cycle 48, 60 and 72 km a day, round the field. When will they meet again?
9. If d is the HCF of 30, 72, find the value of x & y satisfying $d = 30x + 72y$.
10. Find the point on the x-axis which is equidistant from $(2, -5)$ and $(-2, 9)$.

S. A. TYPE II

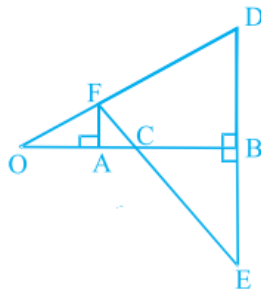
1. Find the values of k for which the distance between the points $A(k, -5)$ and $B(2, 7)$ is 13 units.
2. Find the value of k if the points $A(2, 3)$, $B(4, k)$ and $C(6, -3)$ are collinear.
3. Prove that the points $A(-3, 0)$, $B(1, -3)$ and $C(4, 1)$ are the vertices of an isosceles right-angled triangle. Find the area of this triangle.
4. The coordinate of the midpoint of the line joining the point $(3p, 4)$ and $(-2, 2q)$ are $(5, p)$. Find the value of p and q.
5. A vertical pole of length 6 m casts a shadow 4 m long on the ground and at the same time a tower casts a shadow 28 m long. Find the height of the tower.
6. A girl of height 90 cm is walking away from the base of a lamp-post at a speed of 1.2 m/s. If the lamp is 3.6 m above the ground, then find the length of her shadow after 4 seconds.
7. Without actually performing the long division, find if $987 / 10500$ will have terminating or non-terminating (repeating) decimal expansion. Give reasons for your answer.
8. The numbers 525 and 3000 are both divisible only by 3, 5, 15, 25 and 75. What is HCF (525, 3000)? Justify your answer.
9. Explain why $3 \times 5 \times 7 + 7$ is a composite number.
10. A rational number in its decimal expansion is 327.7081. What can you say about the prime factors of q, when this number is expressed in the form p/q ? Give reasons.

L. A. TYPE

- Are the following statements 'True' or 'False'? Justify your answers.
 - If the zeroes of a quadratic polynomial $ax^2 + bx + c$ are both positive, then a, b and c all have the same sign.
 - If the graph of a polynomial intersects the x-axis at only one point, it cannot be a quadratic polynomial.
 - If the graph of a polynomial intersects the x-axis at exactly two points, it need not be a quadratic polynomial.
 - The only value of k for which the quadratic polynomial $kx^2 + x + k$ has equal zeros is $\frac{1}{2}$.
- If the mid-point of the line segment joining the points A (3, 4) and B (k, 6) is P (x, y) and $x + y - 10 = 0$, find the value of k.
- The mid-points D, E, F of the sides of a triangle ABC are (3, 4), (8, 9) and (6, 7). Find the coordinates of the vertices of the triangle.
- Find the ratio in which the line $2x + 3y - 5 = 0$ divides the line segment joining the points (8, -9) and (2, 1). Also find the coordinates of the point of division.
- Is it true to say that if in two triangles, an angle of one triangle is equal to an angle of another triangle and two sides of one triangle are proportional to the two sides of the other triangle, then the triangles are similar? Give reasons for your answer.
- In the given figure, if $AB \parallel DC$ and AC and PQ intersect each other at the point O, prove that $OA.CQ = OC.AP$.



- In the given figure, OB is the perpendicular bisector of the line segment DE, $FA \perp OB$ and FE intersects OB at the point C. Prove that $\frac{1}{OA} + \frac{1}{OB} = \frac{2}{OC}$.



- Solve the equation : $1 + 4 + 7 + 10 + \dots + x = 287$
- Determine, graphically, the vertices of the triangle formed by the lines $y = x$, $3y = x$, $x + y = 8$

ART INTEGRATED PROJECT
State: Pondicherry (Puducherry)

1. Page 1-Index Page 2 - Acknowledgement
Page 3 onwards ↓
2. Population of Pondicherry: Write in brief and paste pictures.
3. Table for population for years 1992, 2002, 2012, 2022

Description	1992	2002	2012	2022
Approx. Population				
Actual Population				
Male				
Female				
Population Growth				

4. Double Bar graph for comparison of Male and Female population for years 1992, 2002, 2012, 2022. (on Graph Sheet)
5. Line graph of Population Growth for years 1992, 2002, 2012, 2022. (on Graph Sheet)
6. Pondicherry Population by religion: Write in Brief.

Description	Percentage
Hindu	
Muslim	
Christian	
Jain	
Buddhist	
Jain	
Others	

7. Pie Chart of Population by religion. (Colourful)
8. Conclusion about sex ratio and religion ratio.

- Note:**
1. It must be hand written project. Typed one will not be accepted.
 2. Only clear and coloured pictures of monuments should be pasted.
 3. Show your creativity and art and craft skills.
 4. Art form of Pondicherry can be used to make cover page of the project.

PROJECT

Make formula bank chapter wise in the form of table calendar.

1. It must be date wise and chapter wise.
2. It must be hand written and creative.
3. For example:

JUNE 01,2023
Chapter – Real Numbers
1.HCF(a,b)XLCM(a,b)=aXb
Draw the border

JUNE 2, 2023
CHAPTER- POLYNOMIAL
1. Write all the identities
2. Relation between roots and coefficient of Quadratic polynomials.
Draw the border

4. All the formulae from all the Chapters must be covered from June 1, 2023 to June, 15,2023.
5. If any Chapter has more than three to four formulae, you can use two sheets for that Chapter.

5. SCIENCE

A. BIOLOGY

➤ **Task:** Make an integrated project report on “Natural Resources & its Management in Puducherry” emphasizing the following points:

- Natural resources in Puducherry
- Why do we need to manage our natural resources?
- Forest and wild life of Puducherry
- Role of various stakeholders like people, government and non-government organization in management of natural resources in Puducherry.
- Write a slogan in English/ Hindi/Sanskrit to create awareness on the topic: Save our Natural Resources.**

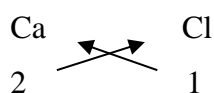
Instructions for above Task:

- Write the project report on **A4 size plain paper/ designer sheet/ activity sheets/ colored sheet in your own hand writing.**
- Paste concerned colourful pictures, cuttings from magazines and newspapers, data etc.

B. CHEMISTRY

Write chemical formulae and chemical names of at least 5 ionic compounds per day and also write balanced dissociation equation for each of them as shown below.

Eg: Ca^{2+} and Cl^{-1}



Cations: K^{+1} , Na^{+1} , Ca^{2+} , Mg^{2+} , Al^{3+} , Zn^{2+} , Fe^{3+} , Sn^{2+} , Pb^{2+} , Ag^{+} , Au^{+} ,

Pt^{+1} , Cu^{+1} , Cu^{+2} , NH_4^{+} , Ba^{2+} .

Anions: Cl^{-1} , Br^{-1} , I^{-1} , HCO_3^{-1} , CO_3^{-2} , SO_4^{-2} , NO_3^{-1} , N^{3-} , HCOO^{-1} ,

$\text{CH}_3\text{COO}^{-1}$, PO_4^{3-} , O^{2-} , S^{2-} , OH^{-1} .

C. PHYSICS

Q1. On the way to various places like Malls, Hill Stations, Cities, Highways, Market, Playground, Hospital etc. or in your day-today activities, observe the applications of Spherical Mirrors and Lenses.

➤ Click a photograph or a Selfie with it and paste it in a project file. Write about its location and uses.

[Ten – Ten applications (uses) of mirrors and lenses each.]

For Example: -

Uses of Convex Mirrors



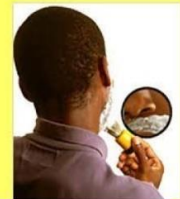
Rear View Mirror for Vehicles



Shop Security Mirrors
(Traffic Mirrors)

Uses of Concave Mirrors

- Shaving/Makeup mirrors
- Dental Mirrors
- Car headlight Mirrors



Concave Lens

binoculars



Telescopes



Eye Glasses



Flash light



USES OF CONVEX LENS



➤ Write a report about your experiences and LIVE Learning about the reflection and refraction of light around you.

NOTE:

- Do this work in a project file.
- Prepare a front page that must contains – Your Name, Class & Section, School Name, Subject, Topic, Date etc
- Paste photograph on Left-Hand Page and write about it on Right-Hand Page, side-by-side.
- A short note about your learnings, understandings and concept clearance after the completion of this project.

6. SOCIAL SCIENCE

Project activity:

1. Located and label the different administrative divisions of Puducherry on map.
2. Write history of Puducherry and Its significance for India.
3. Sustainable agriculture and tourism in Puducherry.
4. Demographic and economic figures: pop, literacy rate, sex ratio, life expectancy, net attendant ratio, infant mortality rate, communities.

Sources: Study IQ, Rajya Sabha TV, History TV, Wikipedia and www.nso.gov.in etc...

Locate and level following in the map.

Ch-3 Water Resources	Ch-4 Energy and Mineral Resources	Chapter-5 Manufacturing Industries	Ch-6 Lifelines of National Economy
Salal Dam, Bhakra Nangal Dam, Rana Pratap Sagar Dam, Sardar Sarovar, Hira Kund, Nagarjuna Sagar Dam, Tungabhadra Dam	Power plants: A) Thermal: Namrup, Singrauli, Ramagundam B) Nuclear: Narora, Kakrapara Tarapur, Kalpakam.	Cotton textile industry: Mumbai, Indore, Surat, Kanpur, Coimbatore, Software tech. Parks: Noida, Chandigarh, Mumbai, Pune, Hyderabad, Bengaluru, Chennai, Thiruvananthapuram.	A) Major sea ports: Kandla, Mangalore, Marmagao, New Mangalore, Kochi, Tuticorin, Chennai, Vishakapatnam, Paradip, Haldia. B) International airports: Amritsar (Raja Sansi)-Sri Ramdas Gurgaon, Delhi airport-Indira Gandhi airport, Mumbai-Chhatrapati Shivaji, Chennai-Minambakkam airport, Kolkata (Netaji Subhash Chandra Bose airport), Hyderabad-Rajeev Gandhi

6. Project work

Make project on any of the following topics which are listed below:

- A) Consumer Awareness
- B) Any Social Issue (Domestic Violence, Corruption, Terrorism etc.)
- C) Sustainable Development