



DELHI PUBLIC SCHOOL JAMMU

SESSION- (2024-25)

CLASS : XI



❖ SUBJECT- ENGLISH

1. Look at the famous painting 'GALAXY OF MUSICIANS' by Raja Ravi Verma and answer the questions that follow based on your interpretation of the painting.



- Suggest an alternative title for this painting.
- What inspired the painter to draw this particular painting? Write a few words about the painter and his style of painting.
- Narrate a story based on your interpretation of the painting.

2. Create a documentary / stand-up comedy / a short video/vlog addressing any social issue, superstition, painting or poetry. Paste the link on the Holidays Homework file and also share the video/documentary with your respective subject teacher on WhatsApp.

3. Go through any one of the following speeches delivered by the famous personalities and summarize the same in your own words.

- TRYST WITH DESTINY by Pt. Jawaharlal Nehru
- SWARAJ IS MY BIRTHRIGHT by Bal Gangadhar Tilak.
- GIVE ME BLOOD AND I WILL GIVE YOU FREEDOM by Netaji Subhash Chandra Bose.
- RELIGION NOT THE CRYING NEED OF INDIA by Swami Vivekananda in Chicago

4. Revise the entire syllabus done in the Month of April and May.

Note-

Rubrics for the evaluation of Holidays Homework:

- 1. Expression (2 Marks)**
- 2. Content (3 Marks)**
- 3. Language (2 Marks)**
- 4. Presentation (3 Marks)**

❖ SUBJECT- PHYSICS

• A: Prepare a short video of Demonstration project on any one of the following topics from XI class curriculum and make a report explaining the theory behind the working and its graphical analysis .

- To demonstrate that a force called centripetal force is required by a body which is

- moving in a circle with a uniform speed.
- (ii) To demonstrate conservation of linear momentum.
 - (iii) To demonstrate inter conversion of potential and kinetic energy.
 - (iv) To demonstrate free oscillations of different vibrating systems e.g. simple pendulum, loaded spring and floating test tube.
 - (v) To demonstrate the effect of angle of launch on the range of projectile.
 - (vi) To demonstrate longitudinal and transverse waves.
 - (vii) To make a paper scale of given least counts 0.2cm and 0.5cm.
 - (viii) To demonstrate whether time period of a simple pendulum depends on factors like length of string, mass of bob, angle through which the bob is displaced or not.

❖ Note:

You can use software tools also available online to analyse the outcome graphically after uploading video and further using it to interpret the results/outcomes.

B: Create a photo essay showing examples of physics principles in everyday life. Include explanations for each example.

C: Use online simulation tools (like PhET Interactive simulations and O labs) to perform virtual experiments to have revision of experiments already taken in school lab .

Note:

- ❖ Holiday homework should be compiled in a file and submitted in the first week after the holidays.
- ❖ This homework plan aims to make learning physics over the holidays engaging and educational, helping students deepen their understanding and appreciation of the subject.

❖ SUBJECT- CHEMISTRY

Chemistry helps you to understand the world around you. It helps us visualize and articulate our rationale for the steps in solving a problem

I. Make an investigatory project report on any one of the following topic:

1. Checking the bacterial contamination in drinking water by testing sulphide ion.
2. Study of the methods of purification of water.
3. Investigation of the foaming capacity of different washing soaps and the effect of addition of Sodium Carbonate on it.
4. Study the acidity of different samples of tea Leaves.
5. Determination of the rate of evaporation of different Liquids.
6. Study the effect of acids and bases on the tensile strength of fibers.
7. Study of acidity of fruit and vegetable juices.

II. Following points should be kept in mind while writing the project work.

1. Compare your results with those available in the reference books.
2. Discuss your results in the light of available information about the project and draw out meaningful conclusion.
3. Make use of photographs, diagrams to support your observations and conclusions.
4. Give a list of books, magazines/journals and internet sites you have consulted during the course of your project.
5. Acknowledge the guidance, help and assistance rendered by your Principal, teachers, parents, and friends by expressing sincere gratitude and thanks to them in the beginning.

How to write an investigatory project:

Students are required to get their project report typed on bond paper sheets and to represent in the best possible manner. The project report should be written in the following sequence:

Title / Aim – Name of the project.

Introduction – Information collected from various sources related to the topic.

Observations – Record your observations / data in the form of tables, graphs, photographs, etc.

Results / Conclusion – Give analysis of the data and compare your results with those available in the literature and draw conclusions.

References – Give the list of books, internet websites, magazines or journals you have consulted, for the project work.

II. Revise your syllabus completed till last day of extra class.

Note -

Rubrics

Subject Relevance & Research- 4 marks.

Subject Clarity and presentation skills- 4

marks Viva- 2 marks

❖ SUBJECT- MATHEMATICS

Mathematics may not teach us how to add love or minus hate but it gives us every reason to hope that every problem has a solution.

➤ **Complete your activity on any one of the following topics :-**

❖ Sets

❖ Relation and function

➤ List of activities:-

Activity-1

Objective: To find the number of subsets of a given set and verify that if a set has n number of elements, then the total number of subsets is 2^n .

Activity-2

Objective: To represent set theoretic operations using Venn Diagrams.

Activity-3

Objective: To verify that for two sets A and B , $n(A \times B) = pq$ and the total number of relations from A to B is 2^n , where $n(A) = p$ and $n(B) = q$.

ICT Activity:-

➤ **Prepare a power point presentation on the topic Sets. This presentation should describe Sets in detail including all the relevant definitions with examples, various concepts and the practical problems.**

➤ **RUBRICS:**

Subject Relevance and research: 04 Marks

Presentation: 04 Marks

Timely Submission: 02 Marks

❖ SUBJECT- APPLIED MATHEMATICS

Mathematics is not about numbers, equations, computations or algorithms: It is about understanding

➤ **Complete your project on any one the following topics:-**

List of projects:

Project-1

Description:

Project on history of Mathematicians: It may include history of Indian Mathematicians or history of foreign Mathematicians.

Project-2

Description:

1. Look around yourself:

- In the house....
- In the garden...
- In the nature....

So on

2. Click photographs using mobile and explore the hidden mathematics.

Useful link: <http://mykhmsmathclass.com>

General layout of the project report has the following format:

PAGE NUMBER	CONTENT
Cover Page	Name, Class, Roll Number, Title of the project
1	Table of contents-Page titles
2	Brief description of Project
3 to 8 (may change)	Procedure (with pictures)
9	Mathematical ideas used/involved
10	Conclusion/Result
11	List of resources
12	Acknowledgement

ICT Activity:-

➤ **Prepare a power point presentation on the topic Binary Numbers.**

RUBRICS:

Subject Relevance and research: 04 Marks

Presentation: 04 Marks

Timely Submission: 02 Marks

❖ SUBJECT- BIOLOGY

➤ Just like a single cell, the character of our lives is determined not by our genes but by our responses to the environmental signals that propel life.

I.1 Make an investigatory project on any of the following topic:

To study the different types of seed, seed germination and factors affecting seed germination.

Content of project

1. Introduction of seed
2. Types of seed (monocot and dicot with labelled diagrams and details)

3. Difference between monocot and dicot seed.(in points)
4. Introduction of seed germination
5. Types of seed germination (epigeal and hypogeal germination with labelled diagrams and details)
6. Difference between epigeal and hypogeal germination.(in points)
7. Factors affecting seed germination (internal and external factors).

I.2 Following points should be kept in mind while writing the project work.

1. Compare your results with those available in the reference books.
2. Discuss your results in the light of available information about the project and draw out meaningful conclusion.
3. Make use of photographs, diagrams or models to support your observations and conclusions.
4. Give a list of books, magazines/journals and internet sites you have consulted during the course of your project.
5. Acknowledge the guidance, help and assistance rendered by your Principal, teachers, parents, and friends by expressing sincere gratitude and thanks to them in the beginning.

I.3 How to write an investigatory project: Students are required to get their project report written on bond paper sheets and to represent in the best possible manner.

- ✓ The project report should be written in the following sequence:
 - ❖ Title / Aim – Name of the project.
 - ❖ Introduction – Information collected from various sources related to the topic.
 - ❖ Observations – Record your observations / data in the form of tables, histograms, graphs, photographs, etc.
 - ❖ Conclusion – Give analysis of the data and compare your results with those available in the literature and draw conclusions.
 - ❖ References – Give the list of books, internet websites, magazines or journals you have consulted, for the project work.

Note. The date of submission of the Holiday Homework to the respective subject teachers will be 20-07-23.

Rubrics:

Subject Relevance and Research-4Marks
Presentation Skills-4Marks
Viva-2Marks

❖ **SUBJECT- PHE**

Ability is what you are capable of doing. Motivation determines what you do & Attitude determines how well you do it. May these holidays inspire you to show your attitude with motivation to build abilities that may lead to a healthy life.

1. Prepare a hand-written project work on any one game of your choice from the list given below:-
 - a) Table Tennis
 - b) Badminton
 - c) Lawn Tennis
 - d) Tug of War
 - e) Speed Ball

Points to remember:

- ✓ Hand-written project.
- ✓ Use interleaf sheets for the projects.

✓ It may include:

- Title Page*
- Certificate*
- Acknowledgement*
- Index Page
- Introduction,
- History,
- Rules,
- Terminologies,
- Skills,
- Equipment used,
- Labeled Diagram of Field,
- National and International Award Winners,
- Famous Tournaments
- Bibliography

- ✓ You can also paste the pictures related to the topic.
- ✓ Properly Covered & decorated with name, session, class and section written on it.
- ✓ This project work will be graded for Final Examination.
- ✓ The topics marked with * will be shared with you separately in the WhatsApp group by concerned subject teachers.
- ✓ It's mandatory for all to complete and submit the Project work on time.

2. Revise the syllabus completed up to June 2024.

Rubrics: ➤

Project work:	05 marks
Handwriting:	02 marks
Presentation:	03 marks

❖ SUBJECT- COMPUTER SCIENCE

Computer science is a science of abstraction-creating the right model for a problem and devising the appropriate merchandisable techniques to solve it.

For your holiday break just try to answer these question and write them in your PRACTICAL FILE.

1. Write full form of following: MICR, OCR, TB, OMR, PB, ALU, DMP, VDU
2. Draw a labeled diagram of Functional components of a computer.
3. What function is performed by ALU and CU each.
4. Compare compiler and interpreter.
5. What is the basic function of memory? What is the measuring unit of memory?
6. WAP to input single digit and print a 3 digit number corresponding to that e.g input 7 and print 7 8 9.
7. WAP to read base/length , width and height of a IIGm & calculate its area and perimeter.
8. WAP to take a 2 digit number & then print the reversed number e.g 72 should print 27.
9. WAP that reads 3 numbers(integer) and prints them in ascending order.
10. WAP that reads two numbers and an arithmetic operators & displays the computed result.

Note –

1. Submit your Holiday Homework after summer vacation. Your submission will carry 8 marks. (6 marks- Subject Relevance & Research, 2 marks- Handwriting).
2. The teacher may ask 1 or 2 questions during the submission which will carry 2 Marks .
3. All the questions should be done neatly on the ruled practical sheets placed in a transparent folder for submission.
4. Date of Submission of the Holiday Home work will be 20-07-2024.

❖ **SUBJECT: INFORMATICS PRACTICES:**

Computer science is a science of abstraction-creating the right model for a problem and devising the appropriate merchandisable techniques to solve it.

For your holiday break just try to answer these question and write them in your PRACTICAL FILE.

1. Write full form of following:
MICR, OCR, TB, OMR, PB, ALU, DMP, VDU
2. Draw a labeled diagram of Functional components of a computer.
3. What function is performed by ALU and CU each.
4. Compare compiler and interpreter.
5. What is the basic function of memory? What is the measuring unit of memory?
6. WAP to input single digit and print a 3 digit number corresponding to that e.g input 7 and print 7 8 9.
7. WAP to read base/length , width and height of a Iigm & calculate its area and perimeter.
8. WAP to take a 2 digit number & then print the reversed number e.g 72 should print 27.
9. WAP that reads 3 numbers(integer) and prints them in ascending order.
10. WAP that reads two numbers and an arithmetic operators & displays the computed result.

Note –

Submit your Holiday Homework after summer vacation. Your submission will carry 8 marks. (6 marks- Subject Relevance &

Research, 2 marks- Handwriting)..The teacher may ask 1 or 2 questions during the submission which will carry 2 Marks .

1. All the questions should be done neatly on the ruled practical sheets placed in a transparent folder for submission.
2. Date of Submission of the Holiday Home work will be 20-07-2024.

❖ **SUBJECT- BUSINESS STUDIES**

Project 1:

Study any company's profile and find information about the following:

- i) Ownership
- ii) Capital
- iii) Pricing policy
- iv) Physical distribution
- v) Promotional Activities
- vi) Working procedure
- vii) Pictures of the business (includes owner and products)

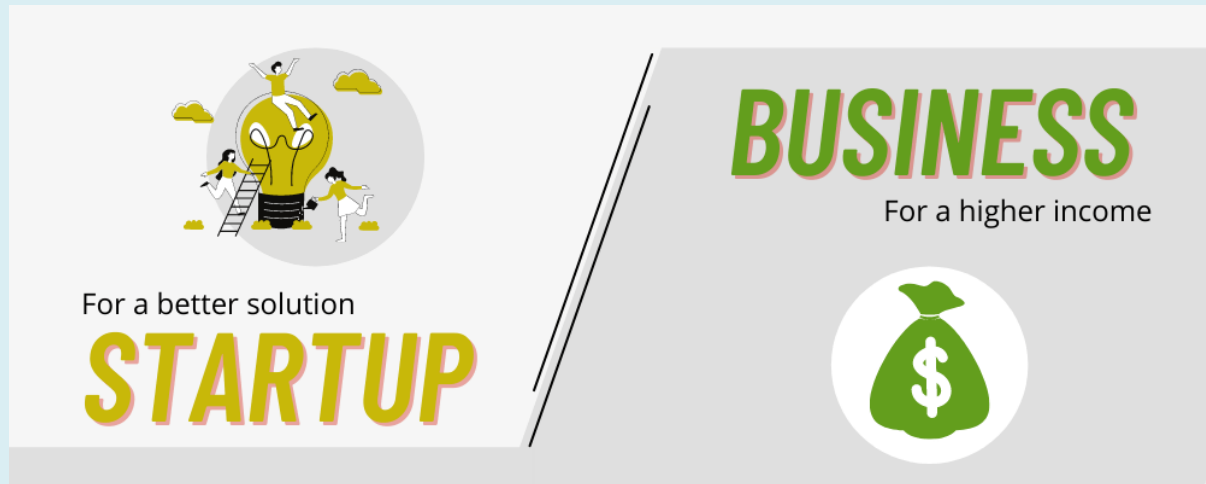
OR

Project 2:

Prepare a presentation on top 30 business news during your summer vacation.

Your presentation should include:

- i) Heading of the news
- ii) Photos or videos of the concerned business.
- iii) Products/ services they deal in.
- iv) Owners of the business along with their annual turnover



❖ **Rubrics:-**

1.	Creativity in presentation	4 Marks
2.	Content	4 Marks
3.	Timely Submission	2 Marks

❖ **SUBJECT- ENTREPRENEURSHIP**

1. Make a PPT on entrepreneur/Start-up of your choice

- Guidelines
- ❖ Entrepreneur - Brief introduction
- ❖ Story behind the start-up
- ❖ Innovation
- ❖ Establishment (s)
- ❖ Problems faced by an entrepreneur
- ❖ Corporate Social Responsibility



Details of the project:

- ❖ Title page
- ❖ Acknowledgement
- ❖ Certificate
- ❖ Index
- ❖ News related to entrepreneurs/Start-ups
- ❖ Photos of each entrepreneur/start-up
- ❖ Conclusion
- ❖ Bibliography

Rubrics:-

1.	Creativity in presentation	4 Marks
2.	Content	4 Marks
3.	Timely Submission	2 Marks

❖ SUBJECT- ACCOUNTANCY**Case Study**

Yuvraj started his own business of buying and selling of FMCGs (Fast Moving Consumer Goods). He invested Rs.25,00,000 in the business. He has shown the following transactions for one month: He purchased Land Building of Rs.12,00,000 and Furniture worth Rs.50,000 for business. He also bought two computers of Rs.40,000 and one laptop for office use Rs.30,000. He took a loan of Rs.6,00,000 from Bank @10% p.a. He also purchased goods worth Rs.7,28,000 for cash and Rs.2,00,000 on credit. He purchased a mini truck of Rs.1,80,000 for supply of goods. Nishant paid Rs.20,000 as rent for his residential house. He sold goods for Rs.10,00,000 on cash and Rs.50,000 to Mohan on credit. As the business was doing well, he invested Rs.3,00,000 more in his business. Life insurance premium paid business was Rs.10,000. Interest on bank loan for the year is yet to be paid. Salaries paid to employees at the end of the month Rs.1,00,000. Rent Rs.12,000 and commission Rs.8,000 is still unpaid.

From the above information given in this case study, find out: What is the amount of total fixed assets; What is the amount of drawings; How much interest is payable to the bank; What is the amount of Capital invested in the business; What is the amount of debtors and creditors; What is the amount of outstanding expenses; What is the total amount of total purchases?

Record the transactions in the books of accounts of Yuvraj by journalizing.

How to write:

- A) Students are required to present the neatly written project report of the case study after journalizing the transactions on plain A4 sized sheets along with the references of books or any online material used by them in the form of bibliography.
- B) Revise the already completed syllabus of the subject.

Rubrics:

- *Content: 6 Marks*
- *Presentation of Project: 4*
- *Timely Submission: 2*

❖ SUBJECT- ECONOMICS

Format for presentation of the Project

- a. External cover page
- b. Acknowledgement
- c. Certificate
- d. Index
- e. Introduction to the topic
- f. Details of the topic (causes, consequences/remedies)
- g. Diagrammatic explanation (if any)
- h. Numerical explanation (if any)
- i. Pros and Cons of the economic event/happening (if any)
- j. Application of the concept
- k. Students' own views/perception/opinion and learning from the topic
- l. Feedback Sheet
- m. Bibliography

Mode of presentation of the Project

- a. The project is to be done on inter-leaf sheets.
- b. Avoid using coloured sheets when writing the text.
- c. The projects must be neat and well presented and must be completely handwritten. No whiteners to be used or written matter to be crossed out. In case of any mistakes, redo the sheet.
- d. Project should be of 3,500-4,000 words (excluding diagrams and graphs).
- e. The project concepts need to be supplemented by newspaper articles pasted on the blank side of the paper with the relevant information written on the adjacent page.

Marking Scheme

1. Relevance of the topic -3 marks
2. Knowledge Content/Research Work -6 marks
3. Presentation Technique-3 marks
4. Viva voce -8 marks
5. Total- 20 marks

Suggested Topics:

- Effect on PPC due to various government policies
- Consumer's Equilibrium using ordinal and cardinal utility analysis
- Opportunity Cost as an Economic Tool (taking real life situations)
- Effect of Price Change on a Substitute Good
- Effect of Covid-19 on demand for goods(Normal, inferior and luxury goods) (taking real life situation or recent news)
- Effect of Price Change on a Complementary Good
- Solar Energy, a Cost Effective Comparison with Conventional Energy Sources
- Bumper Production- Boon or Bane for the Farmer
- Any other newspaper article and its evaluation on basis of economic principles

Note: Students must mention their names, class / section in their work.

❖ SUBJECT- HISTORY

Prepare a Project on any one of the following topics:-

- i) The Mesopotamian Civilization (Based on Theme 2)
- ii) Roman Empire. (Based on Theme 3)
- iii) The Mongol Empire. (Based on Theme 5)
- iv) Feudalism and the Middle Ages. (Based on Theme 6)
- v.) Displacing Indigenous People.

II. Revise your syllabus.

Note:

1. Submit your Holiday Homework to your respective Subject Teacher by 17th of July, 2024. Your submission will carry 4 marks.(2 marks- Subject Relevance & Research, 2 marks- Handwriting).
2. Practice for your Project Presentation (5-6mins) to be held during regular class after holidays. It will carry 6 marks.
(2 marks- Confidence, 2 marks- Subject Clarity, 2 marks- Presentation Skills).

The schedule for presentation will be shared later.

The teacher may ask 1 or 2 questions during the presentation.

❖ SUBJECT- GEOGRAPHY

“Prepare a Project report on Disaster Management”

- ❖ The Topics for the Project “Disaster Management”are:(Do any one of the following)
 - a) Earth Quake, Causes and Mitigation.
 - b) Floods, Consequence and Control of Floods.
 - c) Preparedness for Disasters. (Role of Students).
 - d) Tropical Cyclone, Spatio-temporal Distribution of Tropical Cyclone in India.
 - e) Landslides, Consequences and Mitigation.
 - f) Droughts, Consequences of Droughts.

How to write:

Students are required to present the neatly written report on plain A4 sized sheets and give the references of books or any online material used by them.

Note: Revise the already completed syllabus of the subject.

❖ SUBJECT- POLITICAL SCIENCE

Class: XI Sub: Political Science

“Successful and Unsuccessful people don't vary greatly in their abilities. They vary in their desires to reach their potential.”

Political Science begins addends with State. In political science we study Constitution, Democracy, Thoughts, International Relations, Journalism and Various Political System. The method of Political science is the interpretation of Life; its Instrumental insight and understanding of Subtle, unformulated conditions.

Make a Project on any one of the following Topics:

1. Constitution making.
2. UNO Basic Principal Organs and Agencies WHO, ILO, UNESCO and UNICEF.
3. General Election of 2024.
4. Role of Fundamental Rights in a Democracy.
5. India's Nuclear Policy.
6. Union Executive Functioning.
7. Stamps issued in 1950 to mark the First Republic Day.
8. Different Political Parties in India with their Symbols.
9. Different Lok Sabha Speakers.
10. Indian Judiciary role and importance.
11. Scheme and programmes for the educational welfare of SC, ST and Minority communities.
12. India's relation with neighboring countries
13. Local Government functioning (73rd Constitutional amendment, 74th Constitutional amendment).

Note:

1. Submit your Homework on 15 July 2024
2. Project file is important for Board Project Work.

Rubrics:

Project File – 10 Marks

Viva and Presentation -10 Marks

❖ SUBJECT- PSYCHOLOGY

PROJECT WORK:

Format for presentation of the Project

- a. External cover page
- b. Acknowledgement
- c. Certificate
- d. Index
- e. Introduction to the topic
- f. Details of the topic (disorder related to brain injury ,causes ,difference between traumatic brain and normal brain functioning ,remedies)

- g. Diagrammatic explanation (if any)
- h. flow chat
- i. Students' own views/perception/opinion and learning from the topic
- j. Feedback Sheet
- k. Bibliography

Mode of presentation of the Project

- a. The project is to be done on inter-leaf sheets.
- b. Avoid using colored sheets when writing the text.
- c. The projects must be neat and well presented and must be completely handwritten. No whiteners to be used or written matter to be crossed out. In case of any mistakes, redo the sheet.
- d. Project should be of 3,500-4,000 words.

Rubrics

1. Relevance of the topic -2 marks
2. Knowledge Content/Research Work -3 marks
3. Presentation Technique-2 marks
4. Viva_ voce -3marks
5. Total- 10 mark

Topics:

Develop a script from a preoperational (4-7year old)child's point of view for playing with friends .

Develop the same script for an adolescent .How do these scenarios differ? How are roles played by your friends different .you can take help from books or search the internet .

Note: Students must mention their names, class / section and date in their work.

❖ SUBJECT: SOCIOLOGY

POWERPOINT PRESENTATION:

- a) Students will have to prepare a PowerPoint presentation on any one Indian and a Western Sociological Thinkers as prescribed in the syllabus.
- b) Students will have to present the presentations that they have prepared in class after the vacations are over.

Western Thinkers:

1. Karl Marx
2. Max Weber
3. Emile Durkheim

Indian Thinkers:

1. Govind Sadashiv Ghurye
2. Dhurjati Prasad Mukherji
3. Akshay Ramanlal Desai
4. Mysore Narasimhachar Srinivas

Format for the PowerPointPresentation:

- a. Introduction of the Thinker.
- b. Theory/ theories given by the Thinkers.
- c. Relevance of their theories in contemporary world.

Rubrics

1. Relevance of the topic -2 marks
2. Knowledge Content/Research Work -3 marks
3. Presentation Technique-2 marks
4. Viva_ voce -3marks

