



ST. FIDELIS COLLEGE, ALIGANJ, LUCKNOW

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PROJECTS/ASSIGNMENTS (XII)

Note: Please follow these common guidelines for all the subjects for your projects/assignments.

Presentation Guidelines

- Use neat handwriting.
- Use A4 size ruled sheets.
- Maintain margins.
- Use headings and subheadings.
- Decorate the cover page neatly.
- Attach relevant pictures/drawings.
- Number all pages properly.
- Acknowledgement
- Index
- Content
- School Name

- Conclusion
- Bibliography

Cover Page

Include:

- Title of the Project
- Student's Name
- Class & Section
- Roll Number
- Subject
- Teacher's Name

1. ENGLISH LANGUAGE

TOPIC CONTENT: CHOOSE ANY ONE AND ELABORATE IT IN 500 WORDS:

- The text of a brochure
- A product description
- A process description (e.g. instruction to operate device, a recipe, a scientific experiment)
- Description of a sporting event
- An autobiographical experience
- Review of a television serial

2. ENGLISH LITERATURE

- 'Agent or mirror?' Analyse the weird sisters, hallucinations, and omens act as catalysts for moral corruption, externalizing characters' inner guilt while driving the plot from noble ambition to chaotic destruction. (to be elaborated in 1500 words)

3. PHYSICS (Project: Topics)

- **Make a project on any one of topics given below and follow the instructions given in class**
- 1. Electrostatics
- 2. Current Electricity
- 3. Magneto statics
- 4. Electromagnetic induction & A.C. current
- 5. Optics
- 6. Ray optics.
- 7. Wave optics
- 8. E.M. Wave. & A.C. Current
- 9. Atomic & Nuclear Physics.
- 10. Semiconductors & Electronic device

- **Physics Practical file:** Complete your physics practical file with 10 practical.

4. CHEMISTRY

LIST OF PROJECTS

ROLL NO.	TITLE
1, 16, 31, 46	Amino acids: Peptides, structure and classification, proteins structure and their role in the growth of living beings.
2, 17, 32, 47	Nucleic Acid: DNA and RNA – their structure. Unique nature. Importance in evolution and their characteristic features.
3, 18, 33, 48	Carbohydrates and their metabolism, Blood - haemoglobin and respiration.
4, 19, 34, 49	Vitamins and hormones
5, 20, 35, 50	Simple idea of chemical evolution
6, 21, 36	Natural polymers (any five) - structure, characteristics, uses. Synthetic polymers (any five) - method of preparation, structure, characteristics and uses.
7, 22, 37	Types of Dyes - methods of preparation, characteristics and uses
8, 23, 38	Chemicals in medicines: antiseptics, antibiotics, antacids, etc. and their uses
9, 24, 39	Preparation of soap, nail polish, boot polish, varnish, nail polish remover, shampoo and perfumes
10, 25, 40	Chemicals and chemical processes in forensic studies
11, 26, 41	Insecticides, pesticides and chemical fertilisers
12, 27, 42	Ancient Indian medicines and medicinal plants
13, 28, 43	Organic Chemistry in Nutrition, Food Science and Biotechnology
14, 29, 44	Effect of Green House Gases
15, 30, 45	How Plastics have changed the world, both socially and economically

5. MATHEMATICS: List of suggested assignments for Project work : (DO ANY 2)

CH- I.T.F

1.) Explore the principal value of the function $\sin^{-1} x$ (or any other inverse trigonometric function) using a unit circle.

CH - DETERMINANT

2) Verify the consistency of the system of three linear equations of two variables and verify the same graphically. Give its geometrical interpretation.

CH - VECTOR ALGEBRA

3) Using Vector algebra, find the area of a parallelogram/triangle. Also, derive the area analytically and verify the same.

CH - Application of integral

4.) Find the area bounded by a parabola and an oblique line.

CH - A.O.D

5.) Give their mathematical interpretation using the concept of increasing decreasing functions and maxima-minima...

6. COMPUTER

Notes to be prepared on “Boolean algebra and computer hardware” covering the following topics:

Wff, syllogism, boolean laws, principle of duality, basic logic gates, universal logic gates, exclusive logic gates, minterm, maxterm, canonical expressions, minimization of boolean expressions using algebraic method and using karnaugh maps, circuit diagrams, adders, encoders, decoder and multiplexers.

7. COMMERCE: (Choose any two topics)

1. Compare marketing strategies adopted by two different companies of the same industry (FMCG / Telecommunication / media/education industry etc.) keeping in mind the following:

- Product mix
- Price Mix
- Place Mix
- Promotion Mix

2. Collect newspaper/magazine clippings of five cases filed by consumers in the Consumer Court. Find out the rights violated, and the redress a mechanism used. What was the outcome of each case?

3. Visit a commercial Bank. Find out the procedure to open a savings account. Find out the details of various Agency & General utility services provided by the bank.

4. Choose two companies of the same industry. Study their organizational structure. Also give information with regard to:

- Hierarchy
- Centralization and delegation of authority
- Flow of information (scalar chain)
- Span of control
- Channel of communication.

5. Select any business undertaking. Study the selected business in terms of ownership, capital and profitability. Make a S.W.O.T. analysis and present it in a tabular form

8. ACCOUNTANCY

1 Partnership Fundamentals

2 Common Sizes Statement & Comparative Statement Analysis

Topics to be covered:

- Meaning and Features of Partnership
- Partnership Deed
- Profit Sharing Ratio
- Interest on Capital & Drawings
- Common Size Balance Sheet
- Common Size Income Statement
- Comparative Balance Sheet
- Comparative Income Statement
- Advantages and Interpretation of Financial Analysis
- Minimum 40page

9. HINDI: हिंदी परियोजना कार्य

१. आधुनिक युग की मीरा कही जाने वाली महादेवी वर्मा के जीवन परिचय पर प्रकाश डालते हुए उनकी साहित्यिक रचनाओं का वर्णन कीजिये।

२. "भक्तिन" कहानी के आधार पर भक्तिन के चरित्र-चित्रण पर प्रकाश डालिये तथा तीनों परिच्छेदों का वर्णन कीजिये। इस कहानी में लेखिका का क्या उद्देश्य रहा है।

३. पढाई के लिए स्मार्ट फ़ोन की महत्ता को देखते हुए विद्यालयों में विद्यार्थीओ को स्मार्ट फ़ोन इस्तेमाल करने की अनुमति दी जानी चाहिये। इस विषय के पक्ष और विपक्ष में अपने विचार व्यक्त कीजिये।

10. GEOGRAPHY

TOPIC: Area development of a multipurpose river valley project - Impact on the region"

INSTRUCTIONS

- Stick Only Coloured pictures, maps, charts etc. related with the given topics.
- Hand draw diagrams, maps, flowcharts and pictures are accepted.
- Decoration and presentation of your project is completely up to you.
- Prepare neat and informative project.

11. POLITICAL SCIENCE: TOPICS FOR THE PROJECT (Do any one of them)

- PARTY SYSTEM IN INDIA
- LOCAL SELF GOVERNMENT IN INDIA

12. HISTORY

Write project on any one of the Topics:

- Moving Towards Independence & Partition.
- Development of Indian Democracy.
- Protest Movements (Civil Rights Movement, Anti Apartheid Movement & Feminist Movement)
- Middle East: Israeli- Palestine Conflict.

13. ECONOMICS

Topics for the Project:

- Money and Banking OR National Income (Any One Topic)
- Law of Demand