



BCM SCHOOL

BASANT AVENUE DUGRI ROAD, LUDHIANA

Affiliated to CBSE, New Delhi (Affiliation No. 1630380)

BCMF
BCM FOUNDATION

CLASS XI

Holiday's
HOMework

ENGLISH

Project

1. Make an attractive collage with the newspaper clippings of Classified Advertisements on A3 size sheet.
2. Divide them as per the categories by giving different headings.

Literature Assignment

I. Short Question-Answers (40-50 words)

1. "January 2 was crucial for the voyagers." How?
2. 'That was a turning point in our friendship'. What was the turning point?
3. How does the poet invoke the image of hollowness and emptiness in poem 'The Laburnum Top'?
4. How did the narrator's horse ride prove to be a disaster for him?
5. What 'circumstance' leaves the speaker in Shirley Toulson's poem 'silent'? Why?
6. The narrator's 'grandmother could never have been pretty, but she was always beautiful'. Explain.
7. How did the induction of Larry Vigil and Herb Seigler prove to be a boon for Gordon Cook and his family?
8. 'The thought was almost revolting.' What was the thought and why was it revolting? (The Portrait of a Lady)
9. Was Mourad a 'thief' in your opinion? Give reason in support of your answer.
10. She accepted her seclusion with resignation. Explain.
11. Why do you think goldfinch flies away into the infinite after feeding her young ones
12. What message did Sue's card contain?
13. At her age one could never tell. What was it one could never tell?

14. Why did the Captain think most of all on reaching Ile Amsterdam? Why?

15. What kind of person is uncle Khosrove? Do you like him? Why /Why not?

II. Long Answers (120-150 words)

1. Describe the intimate relationship of grandmother with the sparrows. How did the sparrows mourn her death?

2. Hardships often brings out the best in people. Discuss with special reference to the chapter 'We're Not Afraid to Die ...'.

As Mourad, write a letter of apology to farmer John Byro for unlawfully keeping his white horse with you for weeks.

PHYSICAL EDUCATION

1. Make a practical notebook

Topic – ATHLETICS

- Introduction**
- History**
- Latest rules**
- Draw a diagram of standard track (400 M)**
- Track & field events**
- Any two events of jumping**
- Any two events of throwing**
- Terminologies related to athletic events**
- Sports awards, records**
- Write detail of any two games / sports which is in your syllabus**

2. Make a project file

- It should consists of 18 to 22 pages**
- Write in detail**

- Any one competition / tournament of International level
- OR
- Write down the biography of any one International player any International tournament.

PAINTING

Project (Create any one of the following on A3 Size sheet)

1. ***Political Cartoons***: Create cartoons that critique or comment on current political issues or events.
2. ***Infographics***: Design visual representations of political systems, ideologies, or historical events.
3. ***Propaganda Posters***: Create posters that reflect different political ideologies or campaigns.
4. ***Symbolism in Politics***: Explore the symbolism behind national flags, emblems, or other political symbols.
5. ***Historical Event Collage***: Create a collage depicting a significant historical event or movement.

MUSIC

“Choose a historical period in Indian history (e.g., the Mughal Era, the Bhakti Movement, or life sketch). Research the music of that period and create a art piece that reflects the musical style and historical context. Your response should include:

1. A brief overview of the chosen historical period.(3-4 lines)
2. Types of musical instruments and forms prevalent during that time.
3. Key musicians, composers, or music patrons of the era.
4. Explanation of how historical events influenced the music of the time. Write the names of guru shishya parampara of that time

TYPOGRAPHY AND COMPUTER APPLICATIONS

1. Keyboard Shortcut Handbook

Create a handbook or chart of essential keyboard shortcuts for:

- MS Word
- Windows OS
- Browsers

2. Create a Student Resume in MS Word

Make a well-formatted resume using proper fonts, alignment, borders, and tables.

Sections to Include: Objective, Academic info, Skills, Hobbies, Contact info

3. “Know Your PC” Infographic

Create an infographic using MS Word (or Canva) that showcases:

- Input vs output devices
- Types of storage (HDD, SSD, etc.)
- Difference between RAM & ROM
- Use icons/images for clarity

4. Puzzle Time: Tech Crossword or Quiz

•Design a crossword, jigsaw puzzle, or quiz using computer hardware and MS Word terms.

•Tools:

Use MS Word tables, SmartArt, or third-party puzzle generators.

1.Design a digital travel brochure using MS Word.

a.Choose one Indian or foreign city.

b.Add text, images, maps, must-visit places.

Use columns, borders, drop caps, and bullets to format it professionally.

1. Create a Short Video / Reel on any one from the Topics given: (deal duration: 1–2 minutes | Format: Reels, YouTube Shorts, or horizontal videos)
 - Why You Should Think Before You Click (Fake links, online scams)
 - Go Green with Tech – How to Reduce E-Waste
 - What's On My Phone – Student Edition (Productive Apps Only)
 - 3 Hidden Smartphone Settings Every Teen Should Know

INFORMATION PRACTICES

Implement all the following programs using Python Interface

1. Write a program to Convert Fahrenheit to Celsius
($\text{Celsius} = (\text{Fahrenheit} - 32) * 5.0/9.0$)
2. Write a program to Convert Celsius to Fahrenheit
($\text{Fahrenheit} = 9.0/5.0 * \text{Celsius} + 32$)
3. Write a program to accept the radius of a circle and display its area and circumference
4. Write a program to find the area of a right-angled triangle.
5. Write a program to find the average marks of five subjects.
6. Write a program to find the volume of a sphere.

ENTREPRENEURSHIP

1. PREPARE A VIDEO (MINIMUM 3 MINUTES) ON START UP OF ANY ONE OF THE FOLLOWING:
 - ZOMATO
 - BLINKIT
 - OLA CABS

2. JOURNEY OF ANY ONE OF THE FOLLOWING

•HERO GROUP

•TATA GROUP

Make a Time Line

PHYSICS

1 . Prepare a mind map of the Chapter.

Motion in a Straight Line.

2. Prepare a PPT (at least 12 slides) on any one of the following topics and integrate it with Art and Sports.

(i) Resolution of forces

(ii) Linear momentum and its conservation

(iii) Gravitational Forces

You are required to bring its coloured printout.

1. Prepare the following topics to present in a class:

(a) Triangle Law of Vector addition

(b) Parallelogram Law of Vector addition

(c) Applications of Vectors in everyday life.

CHEMISTRY

1- *ART INTEGRATED PROJECT*

Submit a report on the given topic -

Which energy would you think can replace petroleum in future

—

1-Nuclear energy

2-Solar energy

3-Hydrogen as fuel

4-Wind energy

5-Ocean energy

Select any one and justify your choice by giving suitable reasons.

Also justify yourself for not selecting the other energy forms.

SUBMIT YOUR REPORT IN THE FORM OF PPT(10 slides)

2- See the video of S –Block Elements and their compounds.

https://youtu.be/XTFs8_KmMno?si=3bDTvoAdPsjhUtk6

i)Frame atleast 5 questions related to the topic.

ii)Write five things you have learnt after watching the video.

MATHEMATICS

ASSIGNMENT

1. If A and B are subsets of the universal set U, then show that $A \subset B \Leftrightarrow A \cup B = B$
2. For all sets A, B and C, show that $(A - B) \cap (C - B) = A - (B \cup C)$
3. Using properties of set prove the statement. For all sets A and B, prove that $A \cup (B - A) = A \cup B$.
4. Find the domain of each of the following functions given by

$$(i) f(x) = \frac{1}{\sqrt{1 - \cos x}}$$

$$(ii) f(x) = \frac{1}{\sqrt{x + |x|}}$$

$$(iii) f(x) = x|x|$$

$$(iv) f(x) = \frac{x^3 - x + 3}{x^2 - 1}$$

$$(v) f(x) = \frac{3x}{28 - x}$$

5. Redefine the function: $f(x) = |x - 1| - |x + 6|$. Write its domain also.
6. In a group of 50 students, the number of students studying French, English, Sanskrit were found to be as follows:
 French = 17, English = 13, Sanskrit = 15
 French and English = 09, English and Sanskrit = 4
 French and Sanskrit = 5, English, French and Sanskrit = 3. Find the number of students who study
- French only
 - English only
 - Sanskrit only
 - English and Sanskrit but not French
 - French and Sanskrit but not English
 - French and English but not Sanskrit
 - at least one of the three languages
 - none of the three languages
7. There are 200 individuals with a skin disorder, 120 had been exposed to the chemical C_1 , 50 to chemical C_2 , and 30 to both the chemicals C_1 and C_2 . Find the number of individuals exposed to
- chemical C_1 but not chemical C_2
 - chemical C_2 but not chemical C_1
 - chemical C_1 or chemical C_2
 - exactly one of them
 - neither C_1 nor chemical C_2
8. (i) Find the value of $\cos 570^\circ \sin 510^\circ + \sin (-330^\circ) \cos (-390^\circ)$.
 (ii) Find the value of the expression $\cos^4 \pi/8 + \cos^4 3\pi/8 + \cos^4 5\pi/8 + \cos^4 7\pi/8$
9. Prove that $\sin A + \sin B + \sin C = 4 \cos \frac{A}{2} \cos \frac{B}{2} \cos \frac{C}{2}$
10. (i) Solve $\cos 2A + \cos 2B + \cos 2C = -1 - 4 \cos A \cos B \cos C$
 (ii) Prove that $\sin^2 A + \sin^2 B + \sin^2 C = 2 + 2 \cos A \cos B \cos C$.
11. Solve the equation $|z| = z + 1 + 2i$.
12. If $z^2 + \bar{z} = 0$, show that z is purely real.

13. Show that a real value of x will satisfy the equation where a and b are real.

14. Find the value of $\tan 9^\circ - \tan 27^\circ - \tan 63^\circ + \tan 81^\circ$

15. Prove that $\cos \alpha + \cos \beta + \cos \gamma + \cos (\alpha + \beta + \gamma)$

PROJECT Prepare a project based on the Fibonacci sequence, their properties and similar pattern found in nature Project may be in the form of ppt/video/model

BIOLOGY

ART INTEGRATED ACTIVITY – Draw various stages of mitosis/ meiosis on A4 sheet and highlight with paint .

SUBJECT ENRICHMENT ACTIVITY- Prepare infographics on Flora and Fauna of Odisha and Punjab

1. Explore the unique characteristics of their ecosystem
2. Reasons for more wide spectrum of flora nad fauna whereas Punjab flora mostly focusses on agricultural products .

PRESENTATION- Students should explore the structure and function of important biomolecules like carbohydrates, proteins , lipids and nucleic acids.

ACCOUNTANCY

1. **FLASH CARD'S (BASIC ACCOUNTING TERMS - ANY 10)**
(For roll number 1 to 13)

2. **CHART OF CLASSIFICATION OF ACCOUNTS (BOTH TRADITIONAL AND MODERN).**
(For roll number 14 to 26)

3. **COLLECT DIFFERENT VOUCHERS; ANALYZE EACH VOUCHER AND IDENTIFY (Transaction type and Accounts involved)**
(for roll number 27 onwards)

BUSINESS STUDIES

"The Life of a Product: From Industry to Market"

- The types of industries (primary, secondary, tertiary),
- The functions of commerce (trade, transport, banking, insurance, warehousing, advertising),
- The journey of a product from raw material to final consumer.

Students will select a product (e.g., chocolate, cotton T-shirt, smartphone, handmade pottery, etc.) and trace its journey through various industries and commerce functions.

 **Option 1: Flowchart in Traditional Art Style**

Design a product life cycle flowchart using an Indian art form (e.g., Warli, Madhubani, Pattachitra) to depict:

- Primary Industry (e.g., agriculture/mining)
- Secondary Industry (e.g., manufacturing)
- Tertiary Industry (e.g., retail, services)
- Commerce functions like warehousing, banking, insurance, advertising, and transport.

 **Option 2: Digital Product Journey**

Use Canva, Google Slides, or a simple video to creatively present:

- Stages of production and commerce
- Include animations or transitions with background music

Student can choose option of their choice also for presenting the life of a product. Above mentioned options are for reference.

ECONOMICS

PROJECT WORK

Marking Scheme:

- ☐ **Relevance of the Topic: 3 Marks**
- ☐ **Knowledge, Content, Research Work: 6 Marks**
- ☐ **Presentation Technique: 3 Marks**
- ☐ **Viva-Voce: 8 Marks**
- ☐ **Total: 20 Marks**

Topics:

- 1. Consumer's Equilibrium (Utility Analysis)**
- 2. Consumer's Equilibrium (Indifference Curve Analysis)**
- 3. Law of Demand**
- 4. Price Elasticity of Demand**
- 5. Production Function**
- 6. Forms of Market - Perfect Competition**
- 7. Price Ceiling and Price Flooring**

DETAILS OF PROJECT

1. Title Page:

- o Name of Student**
- o Class and Section**
- o Roll Number**
- o Subject**

2. Topic of the Project

3. Acknowledgment:

- o Express gratitude to those who assisted in the preparation of the project.**

4. Certificate by Subject Teacher:

- o A formal certificate from the subject teacher validating the work.**

5. Index:

- o List of contents with page numbers.

6. Introduction of Topic:

- o Provide a brief overview of the chosen topic.

7. History:

- o Present background information and the historical context of the topic.

8. Causes, Consequences, Advantages, Disadvantages, and Remedies:

ART INTEGRATED ACTIVITY

COLLAGE OF FORMULAS OF ARITHMETIC MEAN AND MEDIAN

PUNJABI

ਪੰਜਾਬੀ ਪ੍ਰੋਜੈਕਟ

ਪ੍ਰੋਜੈਕਟ ਲਈ ਅੰਕ ਮੁਲਾਂਕਣ-ਕੁੱਲ ਅੰਕ 10

ਵਿਸ਼ੇ ਦੀ ਪੇਸ਼ਕਾਰੀ- ਦੋ ਅੰਕ

ਖੋਜ ਭਰਪੂਰ ਵਿਆਖਿਆ -ਪੰਜ ਅੰਕ

ਮੌਖਿਕ ਪਰਖ- ਤਿੰਨ ਅੰਕ

ਪ੍ਰੋਜੈਕਟ ਬਾਰੇ ਦਿਸ਼ਾ ਨਿਰਦੇਸ਼

1.ਵਿਦਿਆਰਥੀ ਦਿੱਤੇ ਗਏ ਦੋ ਵਿਸ਼ਿਆਂ ਵਿੱਚੋਂ ਕਿਸੇ ਇੱਕ ਵਿਸ਼ੇ ਤੇ ਖੋਜ ਭਰਪੂਰ ਪ੍ਰੋਜੈਕਟ ਤਿਆਰ ਕਰੇਗਾ ।

2.ਇਹ ਪ੍ਰੋਜੈਕਟ ਤਸਵੀਰਾਂ ਸਹਿਤ ਲਿਖਤੀ ਰੂਪ ਵਿੱਚ 10 ਤੋਂ 15 ਪੰਨਿਆਂ ਦਾ ਹੋਵੇਗਾ ।

3.ਵਿਦਿਆਰਥੀ ਮੁੱਖ ਪੰਨੇ ਉੱਪਰ ਆਪਣਾ ਨਾਮ, ਜਮਾਤ, ਰੋਲ ਨੰਬਰ,ਵਿਸ਼ਾ, ਸਕੂਲ ਦਾ ਨਾਮ,ਵਿਸ਼ਾ ਅਧਿਆਪਕ ਦਾ ਨਾਮ,ਸੈਸ਼ਨ ਆਦਿ ਦੀ ਜਾਣਕਾਰੀ ਲਿਖੇਗਾ ।

4. ਮੁੱਖ ਪੰਨੇ ਤੋਂ ਬਾਅਦ ਪ੍ਰੋਜੈਕਟ ਦਾ ਵਿਸ਼ਾ , ਵਿਸ਼ਾ ਸੂਚੀ, ਪ੍ਰਮਾਣ ਪੱਤਰ , ਵਿਸ਼ੇ ਦੀ ਜਾਣ ਪਹਿਚਾਣ, ਜਾਣਕਾਰੀ ਭਰਪੂਰ ਵਿਸ਼ੇ ਦੀ ਪੇਸ਼ਕਾਰੀ, ਸਿੱਟਾ, ਪੁਸਤਕ ਸੂਚੀ ਆਦਿ ਸ਼ਾਮਲ ਹੋਣੇ ਜ਼ਰੂਰੀ ਹਨ।

ਪ੍ਰੋਜੈਕਟ ਦੇ ਵਿਸ਼ੇ

1.ਪੰਜਾਬ ਦੇ ਲੋਕ ਨਾਚ

ਜਾਂ

ਪੰਜਾਬੀ ਰਹਿਣ -ਸਹਿਣ (Roll no 1-10)

1.ਸਮਾਜਿਕ ਬੁਰਾਈਆਂ(ਦਾਜ, ਭਰੂਣ ਹੱਤਿਆ, ਨਸ਼ੇ ਵਿੱਚੋਂ ਕਿਸੇ ਇੱਕ ਬੁਰਾਈ ਤੇ ਪ੍ਰੋਜੈਕਟ)
ਜਾਂ
ਪੰਜਾਬੀ ਪਹਿਰਾਵਾ (Roll no 11-20)

2.ਵਿਰਾਸਤੀ ਖੇਡਾਂ/ ਲੋਕ ਖੇਡਾਂ
ਜਾਂ

ਪੰਜਾਬੀ ਹਾਰ- ਸ਼ਿੰਗਾਰ (Roll no 21 onwards)

ART INTEGRATED ACTIVITY

ਵੱਖ ਵੱਖ ਕਿਸਮਾਂ ਦੇ ਵਰਗੀਕ੍ਰਿਤ (ਕਲਾਸੀਫਾਈਡ) ਇਸ਼ਤਿਹਾਰਾਂ ਦੇ ਨਾਲ ਇੱਕ ਕੋਲਾਜ ਤਿਆਰ ਕਰੋ।

SOCIOLOGY

##1## A. Project(15 marks)

1.Introduction-2marks

2.Statement of purpose -2 marks

3.Research questions -2 marks

4.Methodology -3 marks

5. Data analysis -4 marks

6.Conclusion -2 marks

B. Viva-based on the project work (05 marks)

Topic :

1. Roll no. (1-11)

a.)child labour or

b).class and caste system in india

2. Roll no. (11-20)

a.) Youth culture

or

b). Water problem and solutions in today's society

3. Roll no. (21-30)

a.) Nuclear and joint family

or

b.) Environmental issues

4. Roll no. 30 and onwards

a.) Gender bias

or

b.) Modernization and its impact on society

##2##

Art integrated project

Unity in Diversity

**** Make a collage/Spin the wheel on topic Cultural diversity of India.**

POLITICAL SCIENCE

Topic: Operation Sindoor – A Story of Courage and Unity

Type of Work: Art-Integrated Project

Submission Date: [Insert Date]

Dear Students,

We all enjoy our holidays. But this time, let's also learn something real and meaningful in a creative way. Your holiday homework is about a real event that recently happened in our country – Operation Sindoor, where our Indian soldiers showed bravery in Jammu and Kashmir.

This project will help you learn:

What happened during the operation

How our army works to protect us

How people supported the army

How social media played a role

How we can express our national feelings

You will also do a creative task like making a collage, poster, or PPT.

How to Do the Project (Step-by-Step Guide)

Page 1: Introductory Page

Make a neat first page:

Title: Operation Sindoor – A Story of Courage and Unity

Your name, roll number, and class

A drawing or photo of a soldier, Indian flag, or something related

Page 2: Table of Contents

Write the list of what you will include. Example:

1. What is Operation Sindoor?

2. Major Events

3. Role of Social Media

4. Communication Blackout

5. National Feelings

6. Bravery of Soldiers

7. Ceasefire

8. Summary

9. Art Activity

10. Bibliography

Page 3: What is Operation Sindoor?

Write in simple words:

It happened in April 2024, in Jammu and Kashmir

The army did this operation to remove terrorists

The name "Sindoor" shows sacrifice and pride, like the red color

(If possible, add a map or picture)

Pages 4–5: Major Events

Explain:

How the operation started

What happened during it

Names of soldiers who gave their lives

Use of drones and modern weapons

Add 2–3 newspaper pictures with short captions

Page 6: Role of Social Media

Write how:

People posted messages, photos, and prayers online

Some news was true, some was fake

Social media helped people stay updated and connected

Page 7: Blackout

Explain:

What is a blackout? (No internet or mobile signals, no lights)

Why the government does this—to keep everyone safe

How it affects people living in that area

Page 8: National Feelings

Write about:

How people across India felt proud and emotional

Prayers, support for soldiers

Unity in the country

Everyone saying: Jai Hind!

Page 9: Bravery of Soldiers

Write about:

The brave actions of Indian soldiers

If possible, name 1–2 heroes

What their families said in the news

Add a quote or slogan like “Real heroes don’t wear capes, they wear uniforms”

Paste or draw a soldier saluting the flag

Page 10: Ceasefire

Explain in easy words:

A ceasefire means stopping the fight

After the mission, a ceasefire was done

It helped bring peace in the area

Page 11: Summary

Write in your own words:

What did you learn?

Why are such operations important?

How can we respect and support our army?

Pages 12–14: Art-Integrated Activity

Choose any one:

Option A: Collage

Cut newspaper/magazine pictures

Arrange them on a page

Write short labels below each picture

Option B: Poster

Draw a colorful poster on "Bravery of Indian Soldiers"

Use tricolor, flags, and soldier images

Add a slogan like "India stands with our soldiers"

Option C: PowerPoint (PPT)

Make 6–8 slides

Add short points and pictures

Use big text and simple language

Pages 16–17: Bibliography

Write where you got your information:

Newspaper names (like The Hindu, Dainik Bhaskar, etc.)

Websites (like PIB.gov.in, news channels)

Social media posts (mention name or app)