

**ST. MICHAEL'S SR. SEC. SCHOOL , PUSA ROAD**  
**HOLIDAY HOMEWORK CLASS 10 2026-27**

**HINDI**

- अपठित गद्यांश का कोई भी एक उदाहरण प्रश्न उत्तर सहित कॉपी में लिखिए।
- पदबंध परिभाषा, उदाहरण सहित कॉपी में लिखिए।
- औपचारिक पत्र लेखन की विशेषताएँ, पत्र लिखते समय ध्यान देने योग्य बातें कॉपी में लिखिए।
- औपचारिक पत्र का कोई भी एक उदाहरण कॉपी में लिखिए।
- अनुच्छेद लेखन का कोई भी एक उदाहरण कॉपी में लिखिए।
- विज्ञापन लेखन-उद्देश्य , विज्ञापन लेखन की प्रमुख विशेषताएँ एवं महत्वपूर्ण बिंदु कॉपी में लिखिए।
- प्रोजेक्ट : विज्ञापन लेखन का कोई भी एक उदाहरण बनाएँ। [ ROLL N.21 -- 25 ]
- साहित्य (गद्य) का करवाया गया सभी कार्य पूर्ण एवं याद करे।
- साहित्य (पद्य) का करवाया गया सभी कार्य पूर्ण एवं याद करे।
- व्याकरण में करवाया गया सभी कार्य पूर्ण एवं याद करे।

## MATHEMATICS HOLIDAY HW 2026-27

- ❖ Complete lab manual activities neatly
- ❖ Create Formulae flash cards for all the chapters.
- ❖ Revise basic concepts of following chapter:  
Polynomial , Linear Equation, parallel lines ,  
Triangles, Statistics
- ❖ Complete the exercises of chapters done.
- ❖ Brief description( 1page atleast) of 5 famous mathematicians.

*3d Model will be done by roll numbers 1 to 5. This model should emphasis on Mathematics involved*

*CLASS 10D :*

*ROLL NO.1. ENIGMA (WORLD WAR ENCODING)*

*ROLL NO. 2. CROWD MANAGEMENT*

*ROLL NO. 3. CONTROLLING WILDLIFE FIRE*

*ROLL NO. 4. MATHS IN MEDICINE*

*ROLL NO. 5. POLYHEDRALS AND ARCHITECTURE*

*CLASS 10R & 10E*

*ROLL NO 1. Dice Probability Tower*

*ROLL NO 2. Surface Area & Volume City*

*ROLL NO 3. Traffic Signal System*

*ROLL NO 4. Coin Drop Probability Machine*

*ROLL NO 5. Rainwater Harvesting Volume Model*

## **ART AND CRAFT**

ART- Make a Madhubani art on an A3 size sheet and get it laminated

CRAFT- Make any one Christmas craft as a table decoration .

(These projects carries marks)

## **Science**

**Roll no. 6 to 10 have to make a Science working model, on the given topic, for Science Exhibition (11 th July 2026)**

A. Make a working model, on any one Topic, for Interhouse Competition (4<sup>th</sup> July 2026).

- Our Environment
- Life process

B. Write all Practicals in your Lab file

C. Do the following assignment in your science notebook

**Q1. Draw the labelled diagram of:**

- a. Human alimentary canal

- b. **Human respiratory system**
- c. **Human excretory system**
- d. **Human heart**

**Q2. Describe with the help of diagram how energy flows through different trophic levels in a food chain?**

**Q3. “Energy flow in a food chain is unidirectional”. Justify this statement.**

**Q4. Explain the phenomenon of Biological Magnification. How does it affect organisms belonging to different trophic levels particularly the tertiary consumers?**

**Q5. State the function of Bowman’s capsule and glomerules.**

**Q6. Write functions of the following:**

- a) Mouth      b) Salivary glands      c) Stomach      d) Small intestine      e) Liver
- f) Pancreas      g) Heart                      h) Lungs      i) Kidneys                      j) Root
- k) Leaf              l) Salivary amylase      m) Pepsin      n) Trypsin                      o) Lipase
- p) Bile juice

**Q7. Write a short note about the following reactions:**

- a) Combination Reaction      b) Decomposition Reaction
- c) Displacement Reaction      d) Double Displacement Reaction

**Q8. What happens when a piece of:**

- a. Zinc metal is added to copper sulphate solution?
- b. Aluminium metal is added to dilute hydrochloric acid?
- c. Silver metal is added to copper sulphate solution?

Also, write the balanced chemical equation if the reaction occurs.

**Q9. Define oxidation and reduction, also oxidising agent and reducing agent with suitable examples.**

**Q10. Differentiate between exothermic and endothermic reactions with one example of each.**

## **ENGLISH HOLIDAY HOMEWORK**

Write a book review on *The Diary of Anne Frank Novel*.

Key Points for a Book Review

- Title & Author: Start by mentioning the name of the book and who wrote it.
- Genre & Theme: Identify what type of book it is (fiction, non-fiction, fantasy, biography, etc.) and the main idea or theme.
- Summary: Give a short overview of the story or content without revealing too many spoilers.
- Characters: Talk about the main characters and how they are described or developed.
- Setting: Mention where and when the story takes place.
- Writing Style: Comment on how the author writes— simple, descriptive, humorous, emotional, etc.
- Your Opinion: Share what you liked or disliked about the book. Be specific (e.g., “The ending was surprising” or “The story was heart-breaking”).
- Message or Lesson: Explain what you learned or what message the book gives.
- Recommendation: Say whether you would suggest this book to other students and why.

**For Mosaic Exhibition: (R.No. 16-20)**

10R – Famous monologues of literary characters

10E – Create an alternate ending of famous tragedies in the Shakespearean world

10D – Famous quotes of poets and writers to inspire new generation (dress the person you are quoting)

## **SOCIAL SCIENCE – HOLIDAY HW**

### A. PROJECT WORK

As per CBSE guidelines, students of Class X have to submit a handwritten project on one topic of SOCIAL SCIENCE. Students are requested to utilize their vacation to complete this project.

TOPIC OF THE PROJECT – “*SUSTAINABLE DEVELOPMENT*”

GUIDELINES FOR SUBMITTING THE PROJECT

1. It should be a hand written project
2. Use newspaper clippings, maps, diagrams and material from the web
3. Each illustration should be supported with a write up/relevance to the topic
4. *DECORATE* the cover page and write in bold letters the topic. Mention Name and Roll number on the cover page.

Follow the sequence of pages as given below:

a. Acknowledgement

b. Index

c. sub-topics

**1. Introduction to Sustainable Development**

- Meaning and definition of sustainable development.
- Need for sustainable development (why it is essential today?).

**2. Sustainable Development Goals (SDGs)**

- Brief introduction to the UN SDGs (include 2–4 main goals relevant to India).

**3. Importance and Benefits of Sustainable Development**

- Why it matters for future generations, climate change, and resource scarcity.

**4. Examples of Sustainable Practices ( any one -Case Study of a place in India )**

- Renewable energy (solar, wind, hydro).
- Water conservation and rainwater harvesting.
- Waste management, recycling, and reduce-reuse-recycle.
- Organic farming and sustainable agriculture.

**5. Challenges and Barriers**

- Population pressure, over-consumption, pollution, and lack of awareness.

**6. Initiatives and Government Policies**

- Examples of government schemes in India (e.g. renewable energy schemes, NAPCC, sustainable Habitat etc.)

**7. Your Own Suggestions / Action Plan**

- Simple steps taken or will be taken as an individual to preserve our environment.

**8. Conclusion and Bibliography**

- Short summary of what you learned.
- List of books, websites, and other sources used.

**B. ASSIGNMENT**

**MAKE AN ACTIVITY COPY OF CLASS TEST SIZE AND COMPLETE THE GIVEN WORK**

**1. MAP WORK OF MID-TERM AND FINAL TERM AS PER CHAPTER**

2. "Plantation workers had their own understanding of Mahatma Gandhi's ideas and the notion of 'Swaraj'. Evaluate the statement.
3. How did people belonging to different communities, regions or language group develop a sense of – collective belonging during freedom struggle of India?
4. Can there be development without overuse of resources? Explain with examples.
5. Evaluate the needs of resource planning in the context of India.
6. Why decentralization of power is necessary? Discuss the need of local self-government.
7. What are shelter belts?
8. How can soil be classified on the basis of age? Elaborate.
9. Mention any three resources that are useful to us but its value cannot be determined.
10. "Human Beings create useful resources with the help of knowledge and skill." Explain the statement with the help of any two examples.

### **C. MODEL MAKING**

**\_This will be done by the students of following mentioned roll numbers only on the topic specified according to the class.**

Class -10Ruby, Emerald and Diamond

Roll numbers- 11, 12, 13, 14, 15

Roll no 11- Rainwater Harvesting Working Model.

Roll no 12- Working model of Dam.

Roll no 13- Sectors of Economy- 3D model

Roll no 14- 3D model on political parties and Chief Ministers

Roll no 15- Model on Salt Satyagrah.

**Date of Submission : 3-07-2026**

## **Class 10 (Artificial Intelligence + Robotics)**

**1 .Python Programming Assignment(Given at the back of the book)**

**Students must solve the following 15 Python coding questions using Jupyter Notebook.**

**Submission Instructions:**

- **Write and run all programs in Jupyter Notebook**
- **Take screenshot/output if needed**

- Create one document/file
- Paste all 15 codes with outputs
- Submit after summer vacation

2. Explore the orange data mining-non coding platform and do one activity present in the book.

### Mosaic Exhibition:-

Roll No 26 to 30

-**Project Topic:-** Humanoid Robot (10<sup>th</sup> D, Group(Roll no.26 to 28))

-**Project Topic:-** Smart Rain Water detection (10<sup>th</sup> D, Group(Roll no.29 to 30))

-**Project Topic:-** Password based Door Unlock System (10<sup>th</sup> E, Group Roll no.26 to 28))

-**Project Topic :-** Weather Monitoring System ((10<sup>th</sup> E, Group(Roll no.29 to 30))

-**Project Topic:-** Water Tank Filling Alert System (10<sup>th</sup> R, Group(Roll no.26 to 28))

Project Topic:- Automatic Home Light & Fan Turn ON/OFF

((10<sup>th</sup> R, Group(Roll no.29 to 30 ))

## **MOSAIC PROJECT (DANCE)**

The project has been assigned to the appointed students for Dance.

Make a Collage on a Chart paper of any colour, the topics are as follows :-

- 
- **Class 9<sup>th</sup> and 10<sup>th</sup> – Western Dance**

## **MOSAIC PROJECT (MUSIC)**

The project has been assigned to the appointed students for Dance.

· **Class 10<sup>th</sup> R , E , D –**

Make a model on any desired Musical Instrument

### **P.T PROJECT FOR MOSAIC EXHIBITION**

**CLASS: 10**

**CLASS: 10 RUBY**

<b>ROLL NO</b>	<b>PROJECT TOPIC</b>
38	TABLE TENNIS
39	FOOTBALL GAME

**CLASS: 10 EMERALD**

<b>ROLL NO</b>	<b>PROJECT TOPIC</b>
36	IMPOTANCE OF PHYSICAL FITNESS
37	BASKETBALL GAME
40	FAMOUS INDIAN SPORTS PERSONALITIES

**CLASS: 10 DIAMOND**

<b>ROLL NO</b>	<b>PROJECT TOPIC</b>

36	IMPORTANCE OF SPORTS AND GAMES
37	FOOTBALL GAME
39	CRICKET GAME

## LIBRARY HHW

### CLASS: 10 RUBY

ROLL. NO	PROJECT TOPIC
36	Make a 3D model of a library
37	The Power of Reading Habits in Student Life
40	Top 10 Must-Read Books for Teenagers

### CLASS: 10 EMERALD

ROLL NO	PROJECT TOPIC
38	Make a 3D model of a library
39	<u>Famous Indian Libraries (National Library Kolkata, Delhi Public Library, etc.)</u>

### CLASS: 10 DIAMOND

ROLL NO	PROJECT TOPIC
38	Make a 3D model of a library

40	Library Quiz Board (Create 20-25) quiz questions with answers for exhibition)
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Instructions:

- Present these topics in the form of posters, charts, or a dummy book using colourful pictures and slogans.
- Models can be made using cardboard, waste materials, or recycled items.
- The cover page design should be creative and attractive.
- Summary writing should be done in neat handwriting.

## **VALUE EDUCATION**

I. Prepare a project these two topics:

- 1) Benefits of Time management (refer Ch - 14).
- 2) Caring for the Environment (refer Ch -10)

II. Complete the notes of the chapter done till date in the register.