

DON BOSCO SR. SEC. SCHOOL
SUMMER VACATION ASSIGNMENT
Class –IX
SESSION-2024-2025

Dear Students and Parents,

We hope you have a wonderful and restful holiday season. To ensure our students continue their learning journey even during the holidays, we have prepared an engaging and educational holiday homework for each class. This homework includes a variety of activities in Grammar, Literature, and Reading, aimed at enhancing students' skills in English. Below are the details for each class:

Subject: English

Writing:

Two diary entries, two formal letters, and two short moral stories.

Literature:

Read and learn the whole syllabus of English covered in the class.

Read "My Childhood" chapter and write a character analysis of A.P.J. Abdul Kalam.

Reading:

Read the autobiography of A.P.J. Abdul Kalam and write a research paper on him.

Make a chart on any poet, author, dramatist, novelist, or any topic of grammar such as tenses, parts of speech, figures of speech, modals, subject-verb agreement, determiners, narration, active-passive voice, etc.

Research Paper:

Students will select one of the following common social issues and write a research paper on it. The best research paper will be uploaded on the school website and receive a prize.

Poverty

Gender Equality

Climate Change

Mental Health Awareness

Education for All
Child Labor
Human Rights
Cyberbullying
Substance Abuse
Unemployment

Poem Writing and Recitation Competition:

In the month of July, there will be a poem writing and recitation competition. Students will write their own poems, and the best poem will receive a prize.

Presentation:

Students will make a PowerPoint presentation on any social issue or grammar topic as a subject enrichment activity. Presentations should be prepared in a professional manner.

Thoughts and Slogans:

All students will bring 5 printouts of different thoughts and slogans for the improvement of English.

We hope you find these activities both enjoyable and educational.
Have a great holiday!

PHYSICS

Motion

Instructions: Answer the following questions and solve the problems to the best of your ability. Show all your work for full credit.

Short Answer Questions

1. Define Motion.
 - Explain what is meant by an object being in motion.
2. Differentiate between Distance and Displacement.
 - Provide examples to illustrate the difference.
3. Explain the terms Speed and Velocity.

- How do they differ from each other?
- 4. What is Acceleration?
 - Provide an example of a situation where an object is accelerating.
- 5. Describe Uniform and Non-uniform Motion.
 - Give one example for each type of motion.

Numerical Problems

1. Calculating Speed:
 - A car travels a distance of 150 km in 3 hours. Calculate its speed.
2. Velocity Calculation:
 - An athlete runs around a 400 m track and completes one full lap in 50 seconds. What is the average velocity of the athlete?
3. Distance Calculation:
 - If a train moves with a uniform speed of 60 km/h for 2.5 hours, how far does the train travel?
4. Acceleration Calculation:
 - A car increases its speed from 20 m/s to 30 m/s in 5 seconds. Calculate the acceleration of the car.
5. Graphical Interpretation:
 - A cyclist moves in a straight line. The distance-time graph is a straight line passing through the origin. What type of motion does the graph represent?

Long Answer Questions

1. Derive the Equation of Motion:
 - Derive the first equation of motion ($v = u + at$) and explain each term in the equation.
2. Real-life Application of Motion:
 - Describe a real-life scenario where understanding motion is crucial. Explain how the principles of motion apply to this scenario.
3. Graph Analysis:

- Draw a velocity-time graph for an object moving with uniform acceleration. Explain how you can determine the distance traveled by the object from the graph.

CHEMISTRY

Make project report on matter and a state of matter

Make flow chart of chapter matter in our surrounding with all memory tips

Write 10 everyday application of chemistry.

MATHS

1. Solve given worksheets in your practice Notebook.

2. Activities

To verify the algebraic identities

a) $(a + b)^2 = a^2 + b^2 + 2ab$

b) $(a - b)^2 = a^2 + b^2 - 2ab$

BIOLOGY

Renewable Energy Sources like wind, solar, mini hydel, SHP, biomass and other waste.

Create a working or semi-working model showcasing the generation and applications of any one of the renewable energy resources.

The model should be of 24 inches x 18 inches dimensions maximum and should be neatly labelled.

OR

Create a working or semi-working model showcasing any one aspect of “Organic Farming”.

The model should be of 24 inches x 18 inches dimensions.

2. The Topic for the project is Disaster Management (Do any one of the following) a. Earthquake b. Flood

c. Drought d. Landslide

e. Cyclone

Guidelines for project :

Project should be in the PPT form.

Collect information from various sources like newspapers, photographs, article from magazine, internet, eye witness, accounts etc, Regarding the event and the problems faced by the disaster victims.

Collect information on immediate response of various government agencies like police, ospitals, district administration etc.

Discuss the role of authorities, Indian and international agencies (CRY, WHO, UNO) in the rehabilitation process.

Creativity is seeing what others see and thinking what no one else ever thought.”

COMPUTER

MAKE A PROJECT FILE ON ANY ONE OF THE FOLLOWING TOPICS AS PER GIVEN ROLL NO.

USING A WPRD PROCESSOR (ROLL NO. -1 TO 6)

INSERTING OBJECT IN MS WORD (ROLL NO. -7 TO 13)

INTRODUCING PRESENTATION SOFTWARE (ROLL NO. -14 TO 20)

ADDING EFFECTS TO THE PRESENTATION (ROLL NO. -21 TO 26)

INTRODUCTION TO SPREADSHEET (ROLL NO. -27 TO 31)

USING FUNCTION AND CHART IN MS EXCEL (ROLL NO. -31 TO 38)

SOCIAL SCIENCE

CREATE AN INFORMATIVE AND EDUCATIONAL HAND- MADE MAP OF INDIA WHICH INCLUDES.....

Outline and label all states and union territories.

Highlight the state and union territory capital.

Mark and label major cities such as New Delhi, Mumbai, Kolkata, Chennai, Bengaluru, and Hyderabad (Metro cities).

National boundaries, state boundaries, major highways and railways.

UNESCO World Heritage Sites such as the Taj Mahal, Qutub Minar, Red Fort, Ajanta and Ellora Caves.

Major temples, churches, mosques, and other cultural landmarks.

Major industrial regions.

Key agricultural areas: Punjab for wheat, Andhra Pradesh for rice, Maharashtra for cotton and sugarcane.

Read and comprehend the first two chapters of History The French Revolution and Socialism in Europe and the Russian Revolution and write their timelines with the events on a chart or A-4 sheets.

Learn and write 10-10 important terms from both the above mentioned chapters.

Note -All the homework to be done in S.ST NOTE BOOK only.

HINDI

- 1, समास के समस्त भेदों को चित्र के माध्यम से तैयार कीजिए।
- 2 अपनी पसंद का कोई एक विज्ञापन A4सीट में तैयार कीजिए।

हिन्दी क्लब के लिए पोस्टर

- १- प्रमुख छायावादी कवि और उनकी प्रमुख रचनाएँ
- २- सुमितानंदन पंत संक्षिप्त जीवन चरित रचनाएँ और पुरस्कार
- ३- हिन्दी के कालजयी उपन्यास
- ४- आधुनिक हिन्दी साहित्य की प्रमुख महिला रचनाकार
- ५- भक्तिकालीन प्रमुख कवि और उनके रचनाएँ

- ६- उत्तराखण्ड के प्रमुख हिन्दी साहित्यकार
 - ७- हिन्दी मेरी शान मेरी पहचान - पोस्टर
 - ८- शिवानी - जीवन चरित , रचनाएँ और योगदान
 - ९ - आधुनिक हिन्दी साहित्य के महानतम रचनाकारों का एक कोलाज पोस्टर
- हिन्दी में ज्ञानपीठ पुरस्कार हासिल करने वाले रचनाकार.