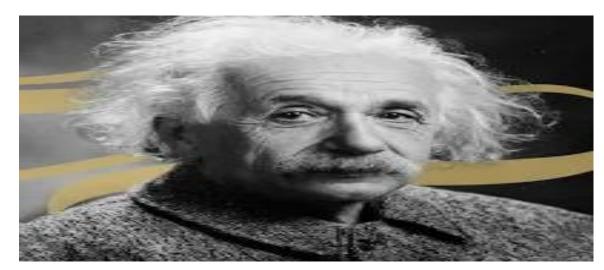
***** OM SHANTI SHIKSHA SADAN SR. SEC. SCHOOLNATHUPUR, (SONIPAT)HR **CLASS -XII SCIENCE** SUMMER VACATION ASSIGNMENT **ACADEMIC SESSION 2025-26**



Sir Albert Einstein

Early Life

- Born: March 14, 1879, in Ulm, Germany

Grew up in Munich, Germany

Developed a strong interest in science and mathematics

Career and Achievements

Theory of Special Relativity (1905)

*Theory of General Relativity (1915)

*Famous Equation: E=mc^2

Kindly note : Holidays shall begin from 1st June, 2025 . School

English Co	
General Instructions:	
1. All tasks to be completed in a separate English	notebook .
2. Maintain neatness, clarity, and proper headings).
3. Originality of thought and creativity will be appr	reciated.
4. Submit the homework on the first day after the	holidays.
A. FLAMINGO –	
. The Last Lesson	
Write a summary of the story in 200 words.	
Character sketch of M. Hamel and Franz.	
Answer any five short questions from your textbo	ook.
2. Lost Spring	
* Write the central idea of the lesson.	
What social message does the story convey? (150	-
Prepare two long answer questions (value-based).	
Deep Water	
* Write a diary entry as Douglas after overcoming	
* Prepare a comparative chart: Fear vs Courage b	ased on the text.
B. FLAMINGO – POETRY	
1. My Mother at Sixty-Six	
* Write the central idea of the poem.	
* Find and explain any five poetic devices.	
* Answer three extract-based questions. 2. Keeping Quiet	
Explain the theme and message of the poem in yo	our own words
Write a paragraph on the relevance of the poem in ye	
C. VISTAS -	
1. The Third Level	
* Write a brief character sketch of Charley.	
* Prepare a flowchart of the story's sequence (real	vs imaginary).
* Answer five short and two long questions.	<i></i>
2. The Tiger King	
* Write the summary of the lesson in your own wo	ords.
* Identify and explain any ten difficult words from	
2 Journov to the End of the Earth	
Write a paragraph: "What Antarctica teaches us a	bout the future."
D. WRITING SKILLS	
Write a paragraph: "What Antarctica teaches us a D. WRITING SKILLS 1. Notice Writing * Write two notices: * Regarding a blood donation camp in school. * Regarding participation in an inter-school literation	
* Write two notices:	
* Regarding a blood donation camp in school.	
* Regarding participation in an inter-school literation	ary fest.

2. Letter to the Editor
* Write a letter to the editor on "Increasing Use of Social Media among Teenagers".
3.Article Writing
* Write an article on "Value of Discipline in Student Life" (150–200 words).
E. LISTENING AND SPEAKING TASKS 1. Listening Task
* Watch any two motivational Talks and write:
* The speaker's name and topic
* Summary of the talk (100–120 words each)
2. Speaking Task
* Prepare for ASL by writing and practicing a speech on:
"Role of Youth in Nation Building"
F. Write 20 handwritings in 4 lines Note book in cursive form.
* Write a letter to the editor on "Increasing Use of Social Media among Teenagers". 3.Article Writing * Write an article on "Value of Discipline in Student Life" (150–200 words). F. LISTENING AND SPEAKING TASKS 1. Listening Task * Watch any two motivational Talks and write: * The speaker's name and topic * Summary of the talk (100–120 words each) 2. Speaking Task * Prepare for ASL by writing and practicing a speech on: "Role of Youth in Nation Building" F. Write 20 handwritings in 4 lines Note book in cursive form. * Waturu-1 MircutQuar, एक गीत (हरिवंश राय बच्चन) * अध्याय-1 आत्मपरिचय, एक गीत (हरिवंश राय बच्चन) * अध्याय-11 भतितन (महादेवी वर्मा) अध्याय-12 बाजार दर्शन (जैनेंद्र कुमार) * Suturuli का अध्यायन करते हुए कल 40 बहाविकल्पीय प्रश्न उत्तर बनाकर लाएं
Hindi 😽
्रुपाठ्यपुस्तक आरोह भाग 2 काव्य खंड
👕 अध्याय-1 आत्मपरिचय, एक गीत (हरिवंश राय बच्चन)
🛧 अध्याय-2 पतंग (आलोक धन्वा)
🐥 गद्य खंड 🥀 🕺
ुअध्याय-11 भक्तिन (महादेवी वर्मा)
िअध्याय-12 बाजार दर्शन (जैनेंद्र कुमार)
🎢 उपरोक्त अध्यायों का अध्ययन करते हुए कुल 40 बहुविकल्पीय प्रश्न उत्तर बनाकर लाएं 🥀 🧚
🍂 और अभ्यास के सभी प्रश्नों को याद करें।
- 💭 वितान पाठ्यपुस्तक के पहले दो पाठ- सिल्वर वैडिंग और जूझ को पढ़ते हुए, सभी अभ्यास के प्रश्न 🛛 👘 🥵
र ियाद करें। र ि
🎢 # निम्नलिखित में से किसी एक विषय पर चित्र सहित जीवनी लिखें। 🥀 🦄
🚓 हरिवंश राय बच्चन
ि स्वामी विवेकानंद
नि महादेवी वर्मा
* #जनसंचार के साधनों से संबंधित एक मॉडल (चार्ट) तैयार करें।
🔺 #. ग्रीष्मावकाश आपने कैसे बिताया विषय पर एक अनुच्छेद लिखिए।
ि # करुण रस या वीर रस में से किसी एक रस पर स्वयं रचित कविता कंठस्थ कर गायन शैली में
ितैयार करें।
🗚 # हस्तलेख सुधार हेतु प्रतिदिन एक सुलेख लिखें।
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শाद करें। * * माद करें। * मिम्रेलिखित में से किसी एक विषय पर चित्र सहित जीवनी लिखें। * हरिवंश राय बच्चन स्वामी विवेकानंद * महादेवी वर्मा * महादेवी वर्मा * मजनसंचार के साधनों से संबंधित एक मॉडल (चार्ट) तैयार करें। * #.जनसंचार के साधनों से संबंधित एक मॉडल (चार्ट) तैयार करें। * #.जनसंचार के साधनों से संबंधित एक पर एक अनुच्छेद लिखिए। * #.जरुण रस या वीर रस में से किसी एक रस पर स्वयं रचित कविता कंठस्थ कर गायन शैली में तैयार करें। * * # हस्तलेख सुधार हेतु प्रतिदिन एक सुलेख लिखें। * * * 1. Write about the following Ramanujam, Harish Chandra on A4 sheets * 3. Solve chapter 1,3,4 and 5 with extra question in your holiday homework notebook. * 4. Make a chart based on Trigonometry Identities. * 5. Complete your practical file with at least 12 experiment.
1. Write about the following Ramanujam, Harish Chandra on A4 sheets
2. Make a sheet of 2-3 pages based on important units of mathematics.
3. Solve chapter 1,3,4 and 5 with extra question in your holiday homework notebook.
4. Make a chart based on Trigonometry Identities.

Topic: Vectors, Probability, Calculus

Task: Analyze a sport (e.g., cricket, football, basketball) using math. For example, use vectors to calculate ball trajectories or probability to predict winning chances.

Daily Life Maths diary

Topic: Practical Maths Applications

Task: Maintain a diary for 7 days, noting how and where you used Maths in daily life.... Shopping, Cooking, budgeting, measurements, etc.

Outcome: A short diary with at least 7 entries.

Career Corner

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Topic: Careers in Math

Task: Reasurch 3careers that involve math(E.g., Data Scientist , Architect, Actuary). Outcome: Short write up on each, explaining what math conc are used.

Do prepare detailed notes on any two topics

PHYSICS

CHAPTER – 1 : ELECTRIC CHARGES AND FIELDS

1. Make notes on the following topics :

Electric charge and its basic properties, conductors and insulators, different methods of charging of objects, Coulomb's law, Electric field and its physical significance, electric field lines,

electric flux, Gauss's law and applications of Gauss's law, electric dipole and its physical significance, electric field due to a dipole

2. (i) Derive relation for Force between multiple charges and Electric field due to a system of charges using principle of superposition.

(ii) Derive relation for electric field due to an infinitely long uniformly charged wire, uniformly charged infinite plane sheet, uniformly charged thin spherical shell using Gauss's law.

3. Solve exercises 1.1 to 1.34 in your notebook.

CHAPTER -2 : ELECTROSTATIC POTENTIAL AND CAPACITANCE

1. Make notes on the following :

Electrostatic potential, potential due to a point charge and due to a system of charges, Equipotential surfaces, potential energy due to a system of charges, Potential energy in an external field, Electrostatics of conductors, Dielectrics and Polarisation, Capacitor and

Capacitance, effect of dielectric on capacitance, energy stored in a capacitor

2. Derive relation for equivalent capacitance for n capacitors in series combination and

for parallel combination

PROJECT:

Make an investigatory project :

(Scientific investigations involving laboratory testing and collecting information from

other sources)

A few suggested projects.

1. To study various factors on which the internal resistance/EMF of a cell depends.

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- 1. Prepare a project file on any topic of your choice.
- 2. Revise chapter 1,2 and 3 and frame 10 questions from each of them.
- 3. Complete your practical files.

COMPUTER

Q1. Prepare practical file as per given program list by CBSE

Q2. Write report file on the below given topics-

a. cyber security e. Al/ML

b. Hacking f. Block chain c. Dark web

d. cloud computing

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