Rayat Shikshan Sanstha's
Loknete Ramsheth Thakur Public School, Kamothe
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Summer Holiday Homework
Std : X

Sr.No	Subject	Homework	
1.	English	The chapter **Glimpses of India** is about a journey through a culturally rich place, highlighting local life, Spirituality and art. Similarly, **Sikkim** with its vibrant handcrafts is also a land of cultural richness and heritage. Imagine you visit with your family. Prepare a storyboard of 6-8 slot on an A4 Sheet **Material Require**: - Assignment paper, collage using newspaper cuts, famous place, cultural, food, Dance Language, Use internet resource ect.) **Format Of Art Integrated Project** Page No 1: Cover Page (Painting or images related Sikkim State) Page No 2: About Yourself Page No 3: Acknowledge Page No 4: Index Page No 5: All detailed information, along with photographs. Page No.6 Conclusion Page No. 7 Bibliography (Resource Used/ Reference)	
		DATE OF SUBMISION	05/06/2026
2.	Hindi	**1. लेखन कार्य (Writing Task)** निम्नलिखित विषयों पर लेखन करें (किसी एक विषय पर 150–200 शब्दों में): “गर्मी की छुट्टियाँ कैसे बिताईं” “पर्यावरण संरक्षण का महत्व” “मेरा प्रिय लेखक” “मोबाइल फोन के लाभ और हानि” **02) परियोजना कार्य (Project Work)** विषय: “हिंदी साहित्य के किसी एक प्रसिद्ध लेखक का जीवन और योगदान” इसमें शामिल करें: लेखक का परिचय प्रमुख रचनाएँ साहित्य में योगदान	
		DATE OF SUBMISION	05/06/2026
3.	Marathi	मराठी साहित्यिक(चित्रासह) व त्यांचे साहित्य याबद्दल माहिती लिहा. (माहिती प्रोजेक्ट पेपर वर लिहून फाईल मध्ये जमा करावी.)	
		DATE OF SUBMISION	05/06/2026

4.	Science	**Physics** Power Consumption Survey at Home Investigation / Research Projects **Conduct a Power Consumption Survey at Home** 1. Identify 5 electrical appliances used in your home and note their power ratings in watts. 2. Record the number of hours each appliance is used per day. 3. Calculate the monthly energy consumption of each appliance and compare the total with your actual electricity bill. 4. Prepare a chart to show which appliance consumes the maximum power. Also compare the energy used by an LED bulb, a CFL, and a traditional incandescent bulb. 5. Conclusion: Suggest 5 practical tips to reduce electricity consumption by 20% **Biology** Students will create an illustrated project file including labelled diagrams and a powerpoint presentation with good visuals on any one topic as per their Roll no. (discussed in class)* from chapter Life processes 1.Nutrition 2.Respiration 3.Transportation 4.excretion **Chemistry** Worksheet on Chemistry TOPIC : CHEMICAL REACTIONS AND EQUATIONS I. Select the most appropriate option out of the fouroptions given 1. Which of the following reaction is an endothermic reaction ? (A)Burning of coal (B) Decomposition of vegetable matter into compost (C) Process of respiration (D)Decomposition of calcium carbonate to form quick lime and carbon dioxide. 2.An iron nail is placed in a solution of copper sulphate. The nail is taken out after 15minutes. The nail will be found to be covered with: (A)blue deposit (B) grey deposit (C) green deposit (D) brown deposit 3.In the reaction of sodium sulphate and barium chloride the colour of the precipitate form_____ (A)Yellow (B) Green (C) White (D) Black 4.Zn + 2CH3COOH __i (CH3COO)2Zn + H2 The above reaction is a (A)Decomposition reaction (B)Displacement reaction (C) Double displacement reaction (D)Combination reaction 5. Mn02 + 4HC1 -i MnC12 +2H20 + C12 The reaction given above is a redox reaction because in this case: (A)Mn02 is oxidized and HCI is reduced. (B)HCI is oxidized, (C) Mn02 is reduced. (D) Mn02 is reduced and HCI is oxidized. Il. Assertion/Reason type questions 1. Assertion:Rusting o fIron is endothermic in nature. Reason: As the reaction is slow, the release of heat is barely evident.

2. Assertion: Chemical reaction changes the physical and chemical properties of a substance. Reason: Chemical reaction involves a change in the chemical composition of matter.

3. Assertion: Changing of colour of copper from reddish brown to black on heating is an example of reduction.

Reason : Reduction is the process of removal of oxygen or addition of hydrogen .

III. Very short answer type questions (2 Marks)

In electrolytic decomposition of water, two gases are liberated at the electrodes. Name the gases and give the mass ratio of the gas liberated at the electrodes.

2. Write any two observations of the below given reaction

3. Define decomposition reaction. Write chemical equation for the reaction that occurswhen lead nitrate is heated strongly in a boiling tube.

4. Name and state the law which is kept in mind when we balance a chemical equation.

5. (a) Write the balanced chemical equation for the reaction that is prevented by storing potassium metal under kerosene.

(b) Identify the type of chemical reaction that is prevented.

6.Write the balanced chemical equation for the following reactions with state symbols:(a) Marble dissolves in hydrochloric acid to give soluble calcium chloride, water and carbon dioxide.

(b) Solid sodium carbonate reacts with dilute hydrochloric acid to give sodium chloride, water and carbon dioxide gas.

7. Find the value of x, y and z in the following equations:

a) Be2C + xH20 -4 + CH4

(b) Mg3N2 + xH20 —Y + zNH3

IV. Short answer type questions (3 Marks)

I. A metal salt MX when exposed to light splits to form metal M and gas X2. Metal M is used to make ornaments where as gas X2 is used in making bleaching powder (CaOC12). The salt MX is used in black and white photography.

(a) Name the metal M and gas X2.

(b) Identify MX

(c) Write down the chemical equation and identify the type of reaction.

2. Compound X decomposes to form compound Y and C02 gas. Compound Y is used for whitewashing.

(a) Name X and Y

(b) Write the balanced chemical equation and identify the type of reaction.

3. (a) What is a redox reaction?

(b) In the given redox reaction, PbO + H2 —+ Pb + H20 , Identify

(i) Substance oxidized (ii) Substance reduce

(iii) Oxidising agent (iv) Reducing agent

4.An alloy of 'M' is used for soldering. When a nitrate of 'M' is heated, it give a yellowish brown coloured metal oxide together with a brown coloured metal oxide together with a brown gas G1 and a colouress gas G2 . Name the metal M and identify G1 and G2 and write the balanced chemical equation.

V. Long answer type question (5 Marks)

1. (a) " The types of reactions in which (1) calcium oxide is formed, and (11) calcium hydroxide is formed are oppositereactions to each other." Justify this statement with the help of chemical equations.

(b) How can we say that (1) electrolysis of water, and (1) blackening of silver bromide when exposed to sunlight, ardecomposition reactions? Mention the type of energy involved in each case.

2. What is a chemical reaction? Describe one activity each to show that a chemical change has occurred in which

(1) Change of colour, and (11) Change in temperature has taken place.

VI. CBQ (4Marks)

White wash was being done at Mukesh's house. Mukesh saw that the painter added quick lime to drum having water.

Mukesh touched outer surface of drum, it is unbelievably hot.

(a) The above mentioned process comes under two types of chemical reactions. Name and define the types of reactions.

(b) What are the chemical names of quick lime and slaked lime. Write the chemical equation for the reaction whenquick lime is added to water.

OR

(b) What happens when the solution of quick lime is applied on the wall?.Write the chemical equations to justify your answer

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<td>Mathematics</td>
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CLASS 10 MATHS HOLIDAY HOMEWORK*

Objective:
To integrate mathematical concepts of real numbers with creative presentation, deepen understanding of concepts and enhance analytical and artistic skills through structured project work.

Page 1: Cover Page
Page 2: About Yourself
Page 3: Acknowledge
Page 4: Index
Page 5: About Real Numbers
Page 6: Flow Chart
Page 7: Theorems
Page 8: LCM, HCF
Page 9: Form a Case Study
Page 10: Conclusion
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<td>6.</td>
<td>SST</td>
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Hist- Nationalism in India & Print cultural of modern India
Project- Prepare a Newspaper for a period of British Era
Objective:
1. To understand the historical context of the British Era in India
2. To develop research and creative skills
3. To analyse the impact of British rule on Indian society
General Instruction:
1. Research key events and figures of the British Era
2. Write articles and editorials
3. Design the newspaper layout
4. Include images, illustrations, or graphics

Examples
• Front Page: Headlines and key events of the British Era
• News: Articles on British policies, Indian responses, and key figures
• Features: Profiles of notable Indians or British officials
• Advertisements: Advertisements for British goods or services

Material Required
A4 size paper, Black and white images, Markers or colored pencils, Pens, Glue, Scissor, etc
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1- Civics- Federalism
Poster Making- ‘India as Federal Country- Strength in Diversity’

Objective:

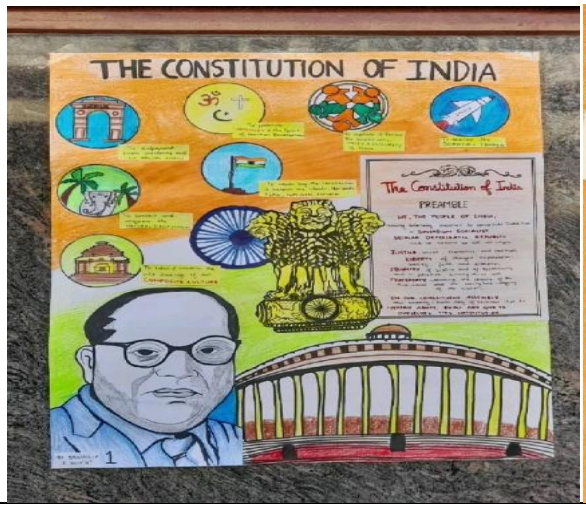
1. To understand the concept of federalism and diversity in India
2. To appreciate the strengths of India's diverse culture, languages, and regions
3. To develop creative expression and visual communication skills.

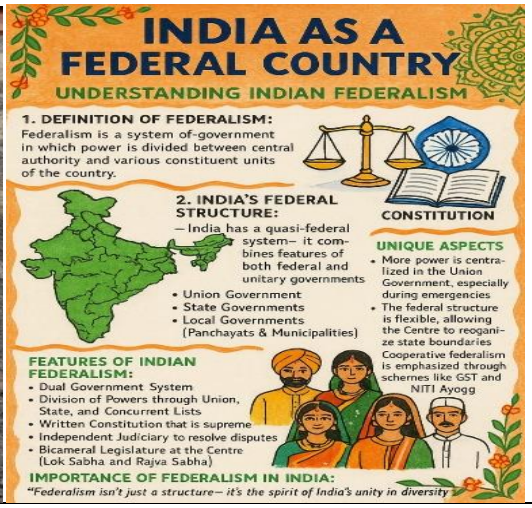
General Instruction:

1. Research key events and figures of the British Era
2. Write articles and editorials
3. Design the newspaper layout
4. Include images, illustrations, or graphics

Poster Requirements

1. Theme: "India as a Federal Country - Strength in Diversity"
2. Content: Represent India's diversity through:
   - Cultural symbols
   - Languages
   - Regional traditions
   - Festivals





Material Required

A4 size paper, Markers or color, Pens

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