LOYOLA CONVENT SCHOOL, RANCHI



Holiday Homework (2025-26)

Class- IX

ENGLISH

1. **Grammar** -25 (five letters) words meaning with sentence formation, synonyms and antonyms; 10 sentences of Reported Speech

2. Together with -

A. Reading section

Unit Assignment 9, 10, 11, 12

B. Writing Section

Unit Assignment - 19, 20

3. Project

Workbook (Sound of Music) - Pg. 37, Question no. 1

<u>HINDI</u>

1) बछेन्द्री पाल का चरित्र चित्रण उनके गुण, चुनौतियाँ और उपलब्धियों के आधार पर अपने शब्दों में करें। (लगभग 100 शब्द)

2) एक काल्पनिक संवाद लिखिए —

रैदास जी और एक राजा के बीच, जहाँ रैदास जी उन्हें सचे धर्म और समता का संदेश देते हैं।

3) "चल" शब्द को अलग-अलग वाक्यों में प्रयोग करके दिखाइए, जिससे वह भिन्न पद बन जाए। (कम से कम तीन वाक्य अवश्य लिखें।)

4) यदि विद्यालयों में केवल परीक्षा आधारित शिक्षा हो और नैतिक शिक्षा को नजरअंदाज किया जाए, तो इसका समाज पर क्या प्रभाव पडे़गा?

SANSKRIT

1. परियोजना कार्य

विषय:- शब्दरूप लेखन

शब्द :- 1.छात्र, 2. लता, 3. मुनि, 4. साधु,5. किम् 6. तत 7. अस्मद, 8. युष्मद, 9. नदी, 10. पितृ

- आधार बिंदु
- 1. विषय
- 2. आभार ज्ञापन
- 3. विषय सूची
- 4. उद्देश्य
- 5. स्रोत
- 6. प्रमाण पत्र
- ७. अध्यापक टिप्पणी
- 2. टुगेदर विद पुस्तकात प्रश्न पत्र 1-5 अपठित अवबोधनं पुस्तिकायाम एव कुरुत

MATHEMATICS

1. Do the following Activities from Maths L/M - Activity 1,2,3,4

2. Do the following Activities

Activity1: Find and categorize 20 numbers from real life.

• Examples: Prices (decimals), temperature (integers), phone numbers (natural numbers), bank account balances (integers), square roots (irrational), etc.

Task: Classify each number as natural, whole, integer, rational, irrational, or real.

Activity2: Create a colourful number line poster from -20 to 20 (or beyond) on a chart paper.

- Plot rational and irrational numbers (like $\sqrt{2}$, π , 3/4).
- Use different colors for different number types.
- Add images or fun facts about each.

Activity3: Pick 5 rational and 5 irrational numbers.

- Write their decimal expansion.
- Observe and compare (terminating, non-terminating, recurring and non-recurring).

SCIENCE

PHYSICS

Part A: Theory Questions

01. Define the following terms:

Distance, Displacement, Speed, Velocity Acceleration

02. Differentiate between:

Uniform and non-uniform motion (with examples)

Speed and velocity (with one example)

3. State the three equations of motion. Write down what each symbol represents.

Part B: Numerical Problems

1. A car travels 60 km in 2 hours. What is its average speed?

2. A body accelerates uniformly from 5 m/s to 25 m/s in 5 seconds. Find the acceleration and distance covered.

3. A ball is thrown upwards with a speed of 20 m/s. How high will it go?

4. A train moving at 72 km/h is brought to rest in 1 minute. Find the acceleration.

Part C: Research & Activity

1. Find and write about one real-life example where acceleration is involved (e.g., car braking, rocket launch).

2. Create a small chart showing different types of motion (rectilinear, circular, oscillatory) with examples and pictures (you can paste printed or hand-drawn images.

CHEMISTRY

Q1.Home Experiments Scrapbook Do 3–5 simple experiments (e.g., melting ice, boiling water, camphor sublimation). Click pictures or draw each step and describe the change in state observed. Q2.Model Making: States of Matter Create 3D models of solids, liquids, and gases using thermocol balls or clay to show particle arrangement.

Include a short write-up explaining how particle arrangement affects properties like shape and flow.

Q3.Write a brief note on Solid ,Liquids ,Gases ,Plasma and Bose Einstein Condensate .Enlist some real-life applications and presence of the fourth state of matter ,that is, Plasma.

Q4. What is evaporation? Describe the factors affecting the rate of evaporation. Also, explain how evaporation causes cooling, quoting some real-life examples. Draw diagrams wherever necessary.

Q5. Explain why the temperature of a substance remains constant during a change of state. Support your answer with an experimental set-up.

BIOLOGY

1) Make an investigatory project on anti-microbial properties of natural substances

o Natural substances may include ginger, garlic, turmeric, and others

o Name the compounds present, which have anti-microbial property

o Suggest how these can be used as natural remedies against infections

2) Draw labelled diagram of the following cell organelles

- Endoplasmic reticulum
- Mitochondria
- Chloroplasts
- Golgi apparatus

3) Differentiate between plant and animal cells with the help of labelled diagrams.

4) Answer the following questions:

a) Differentiate between RER and SER. How is ER important for membrane biogenesis?

b) What would happen if the nucleus is removed from the cell?

c) Which organelle would be abundant in liver cells and why?

SOCIAL SCIENCE

HISTORY & GEOGRAPHY

1. Prepare an interdisciplinary project on "Colonialism and forest society"

Based on History chapter 4 and Geography chapter 5 in a biodegradable file.

2. Divide India into different physiographical units and describe them with a relevant map.

3. Write a detailed biography of Napoleon with his picture.

4. Summarise the causes of the French Revolution and explain them briefly.

CIVICS

1. Choose any one Fundamental Right from the Indian Constitution. Research and write a report on a real-life case where this right was violated or protected.

2. Research the steps involved in conducting a Lok Sabha election. Prepare a flowchart to show the process.

3 . Research the differences between democratic and non-democratic governments. Give real-life examples of each and highlight how people's lives differ.

ECONOMICS

1. Interview someone from there and compare it with Palampur in terms of infrastructure, farming practices, and employment.

2. Research government schemes (like PM Awas Yojana, MGNREGA, or PDS) meant to reduce poverty. Write a brief report on how effective one of them has been.

3.Make a poster or infographic on the importance of human capital in economic development

COMPUTER

- (All HHW to be done in Practical Stick File A4 Sheets)
- 1. Explore the impact of IT and ITeS in various areas in day-to-day life.
- 2. Which are the different areas of healthcare where IT is used? And how?
- 3. What are the pros and cons of using ICT?
- 4. List any 5 websites of the Indian government which provide IT enabled services to the people.