

- Action plan for the completion of assigned tasks.
- Materials such as scripts for the theatre/role play or questionnaires for interview and other material evidence of learning progress and academic accomplishment.
- The 800-1000 words essay/Script/Report.
- Student/group reflections.
- Video/ Photographs that capture the positive learning experiences of the student(s).
- List of resources/bibliography.

**KENDRIYA VIDYALAYA RRL JORHAT
AUTUMN BREAK HOME WORK 2022-23
CLASS-XII SUBJECT- 041-MATHS**

1. Write any five activities from math lab manual in practical notebook.
2. Solve the questions of chapter 1 to 8 from the sample paper in your notebook.

**KENDRIYA VIDYALAYA RRL JORHAT
AUTUMN BREAK HOME WORK 2022-23
CLASS-XII SUBJECT- 042-PHYSICS**

PRACTICE DERIVATIONS: (in classwork copy)

01. Ampere Circuital law and its applications
02. Moving Coil Galvanometer.
03. LCR series circuit: Impedance and phase difference
04. Transformer: principle and working.
05. AC generator: The alternating voltage

PROJECT WORK: Perform a study and paper-work on the following topics:

For Roll no.1 to 19	For Roll no. 20 to 39
Alpha-particle scattering experiment, Rutherford's model of atom; Bohr model, energy levels, hydrogen spectrum.	Composition and size of nucleus. Mass-energy relation, mass defect, nuclear fission, nuclear fusion.

The evaluation of the project/activity will be based on the following Rubrics:

S. No.	Item	Marks
1	Quality & Lay out of the project.	10
2	Visual Presentation of the facts like Description/Content/ Picture/Map/Graph/Diagram/ Derivation etc.	20
3	Overall Presentation (Neatness, Handwriting and word limit etc.)	10
4	Assessment of the Project through Questionnaire (Google Form- 10 MCQ or telephonic viva/ any other suitable methodology)	10
	Total	50

COMMON LAY OUT OF PHYSICS- PROJECTS

1. Cover Page
2. Certificate
3. Table of contents - Page Title
4. Title /topic of the Project
5. Objective of the Project.
6. Brief description of the project.
7. Pre requisite Knowledge.
8. Material / Resources required.
9. Planning /Procedures followed.
10. Scientific Concept(s) Used.
11. Results (Analysis /Interpretation etc.)
12. Conclusions.
13. Acknowledgement.
14. List of references.

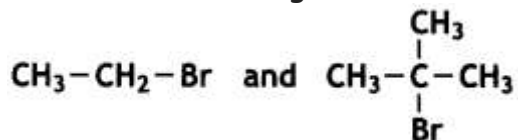
Note: You may add any other relevant points as per your project allotment.

KENDRIYA VIDYALAYA RRL JORHAT AUTUMN BREAK HOME WORK 2022-23

CLASS-XII

SUBJECT- 043-CHEMISTRY

1. Predict the number of unpaired electrons in the square planar $[\text{Pt}(\text{CN})_4]^{2-}$ ion.
2. Explain crystal field splitting in both octahedral and tetrahedral complexes.
3. Assign reasons for the following:
 - (i) Cu(I) is not known in an aqueous solution.
 - (ii) Actinoids exhibit a greater range of oxidation states than lanthanoids.
 - (iii) MnO is basic whereas Mn_2O_7 is acidic in nature.
4. Actinoid contraction is greater than lanthanoid contraction. Give reason
5. Which would undergo $\text{S}_{\text{N}}2$ reaction faster in the following pair and why?



6. Explain the terms:
 - a. Optical activity
 - b. Racemic mixture
 - c. Enantiomer
 - d. Diastereomer
 - e. Chirality

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AUTUMN BREAK HOME WORK 2022-23
CLASS-XII **SUBJECT- 044-BIOLOGY**

1. Define transformation in Griffith's experiment. Discuss how it helps in the identification of DNA as the genetic material.
2. Who revealed biochemical nature of the transforming principle? How was it done?
3. Discuss the significance of heavy isotope of nitrogen in the Meselson and Stahl's experiment
4. Define a cistron. Giving examples differentiate between monocistronic and polyeistronic transcription unit.
5. Give any six features of the human genome.

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AUTUMN BREAK HOME WORK 2022-23
CLASS-XII **SUBJECT- HINDI**

कक्षा बारहवीं शरद कालीन अवकाश गृहकार्य	
प्रश्न-1	लेखक ने शिरीष को कालजयी अवधूत (सन्यासी) क्यों माना है
प्रश्न-2	पहलवान की ढोलक कहानी में लुट्टन के जीवन में की क्या परिवर्तन आया
प्रश्न-3	मीडिया को लोकतंत्र का चौथा आधार स्तंभ क्यों कहा जाता है
प्रश्न-4	महामारी फैलने के बाद गाँव में सूर्योदय और सूर्यास्त के में क्या अंतर होता था
प्रश्न-5	आँखों देखा किसी क्रिकेट मैच का वर्णन कीजिए

KENDRIYA VIDYALAYA RRL JORHAT
AUTUMN BREAK HOME WORK 2022-23
CLASS-XII **SUBJECT- PHYSICAL EDUCATION**

Write the answers to the following question in 100-150 words.

1. Describe the effects of exercise on muscular system.
2. Explain about the SAI Khelo India test with its test batteries.
3. Make a fixture of 21 teams in knockout method.
4. Explain lordosis and kyphosis with their corrective measures.
5. Name any asana that can be done when a person is suffering from high blood pressure and also explain with diagram.

KENDRIYA VIDYALAYA RRL JORHAT
AUTUMN BREAK HOME WORK 2022-23
CLASS-XII **SUBJECT- 083-Computer Sci.**

Solve the following questions:

Q. 1 to 20 page No.460 to page 467

Solve the following questions :

Q. 1 to 22 Page no. 555 to page no. 559. From Computer Science with Python

By Sumita Arora
