



**VASISHTHA
GENESIS
SCHOOL**
BARDOLI, DIST. SURAT, GUJ



DIWALI ASSIGNMENT CLASS : XII

Student's Name: _____

Division: _____ Roll No: _____



At. & Po. Baben, Tal. Bardoli, Dist. Surat



Dear Parents,
Greetings from VGS Family!

As we celebrate the Festival of Lights, Diwali, we extend our warmest greetings and best wishes to you and your family. May this joyous occasion bring happiness, prosperity, and togetherness into your lives.

We are excited to share the spirit of Diwali with your children at school. Diwali is a time for reflection, renewal, and gratitude. It is a time to celebrate the triumph of light over darkness and good over evil.

Along with this message, we have enclosed subject-wise Diwali assignment sheet(s) for your child, each thoughtfully designed to enhance their understanding, while reinforcing their academic growth. We believe that these assignments will not only allow your child to appreciate the cultural and spiritual significance of Diwali but also promote their subject-specific knowledge and skills.

We kindly request that you encourage your child to complete these assignments enthusiastically and curiously. Our teachers have carefully curated them to align with their ongoing subjects, ensuring a seamless blend of celebration and education. Should your child require any support or clarification, please do not hesitate to reach out to our dedicated teaching staff.

We wish you a Diwali filled with love, joy, and the company of loved ones. May this festival illuminate your lives with positivity and prosperity, and may the completion of these assignments further brighten your child's academic journey.

Once again, wishing you all a Happy Diwali and a Prosperous New Year!

Warm regards,

Dr Gautam Guha
Principal

VASISHTHA GENESIS SCHOOL, BABEN, BARDOLI

12 Science

DIWALI HOLIDAY ASSIGNMENT

1) MATHEMATICS

Prepare a brief overview of the following chapters –

Integrals, Application of Integrals, Differential Equations, Vector Algebra, Three-Dimensional Geometry.

The Overview should include:

- Relevant formulas that are essential for understanding and solving problems.
- Identify key concepts, definitions or principles related to the topic.
- Include examples / diagrams / mind maps to clarify concepts.

Present your homework in a clear and organized manner using headings, bullet points or numbered lists to structure your content.

2) BIOLOGY

Instructions-

- a. Write a note on the following topics in about 150-200 words
 - b. This task is to be completed in your Class Biology Notebook.
- Q.1 Noble prize in Medicine 2023: The mRNA vaccine techniques.
Q.2 How do Hormones contribute to depression?
Q.3 Effects of Oil spills on Ocean Wildlife.

3) PHYSICS

Complete your project / practical file for the following Experiments as per CBSE guidelines.

- 1) To find the value of v for different values of u in case of a convex lens and to find the focal length. Plot the graph between u and v , or between $1/u$ and $1/v$.
- 2) To determine the angle of minimum deviation for a given prism by plotting a graph between the angle of incidence and the angle of deviation.
- 3) To find the refractive index of liquid using convex lens and plane mirror.
- 4) To draw I-V characteristic curve for a p-n junction diode in forward and reverse bias.

Note:

The project file must contain diagrams wherever necessary.

The project file must be in typed word form and be compiled in a file along with colorful printouts wherever necessary.

Those who are involved in preparation of working model(s) also need to submit project manual of their model(s).

4) CHEMISTRY

Prepare a Mind Map on the following Chapters on A3 Size sheets:

- 1) Ch.6 Halo Alkane and Halo Arene
- 2) Ch.7 Alcohol and Phenol
- 3) Ch.8 Aldehydes, Ketones, and Carboxylic Acid

5) ENGLISH

The Project-Portfolio/Project Report is a compilation of the work the students produce while working on their ALS Project. CBSE–PROJECT-PORTFOLIO / PROJECT REPORT – 10 MARKS (5 PROJECT + 5 VIVA)

The Project - Portfolio may include the following:

- Cover page, with the project's title, school details/details of students.
- Statement of purpose/objectives/goals
- Certificate of completion under the guidance of the teacher.
- Acknowledgement
- Index
- Action plan for the completion of assigned tasks.
- Materials such as scripts for the theatre/role play, questionnaires for interviews, written assignments, essays, survey reports, and other material evidence of learning progress and academic accomplishment.
- The 800-1000 words essay/Script/Report.
- Student/group reflections.
- If possible, Photographs that capture the positive learning experiences of the student(s).
- List of resources/bibliography.

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THE FOLLOWING POINTS MUST BE KEPT FOR CONSIDERATION WHILE ASSESSING THE PROJECT PORTFOLIOS:

- Quality of content of the project
- Accuracy of information
- Adherence to the specified timeline
- Content in respect of (spelling, grammar, punctuation)
- Clarity of thoughts and ideas
- Creativity
- Contributions by group members
- Knowledge and experience gained

PROJECT TOPICS

(will be given Roll No wise by the subject teacher(s) in class)

1. The Population Control Bill is the Right Step Forward.
2. Unrestrained Freedom of Speech and Expression is the Pillar of Progressive Society.
3. The fulfilment of the new woman in India is a Myth.
4. Populism is a threat to Democracy.
5. Juveniles should be tried and tested as adults.
6. There is a need to restore Net Neutrality.
7. Paperless Currency-the future of the World Economy.
8. OTT platform vs. Conventional Cinema
9. NEP 2020
10. SDG Goals
11. Child Labour – Condition in the Mega Cities
12. How the pandemic changed education
13. Mental Wellness
14. Atrocities against women
15. Overuse of Digital Devices
16. Internship – A need for teens
17. Online Shopping Mania

IMPORTANT NOTE:

- The project is to be prepared on A4 size Coloured Project Papers and put into a Spring File before submission.
- The project should be completed within 20-25 pages.
- Photos are to be attested as evidence and references – Related to findings during research, Questionnaires, Survey Pie Charts (if survey taken), and photos of you conducting the survey/interview.
- The entire project needs to be Handwritten only.

6) INFORMATICS PRACTICES

Project Work (using concepts learned in class XI and XII)

- The aim of the class project is to create tangible and useful IT application. *The learner may identify a real-world problem by exploring the environment. e.g. Students can visit shops/business places, communities or other organizations in their localities and enquire about the functioning of the organization, and how data are generated, stored, and managed.
- The learner can take data stored in csv or database file and analyze using Python libraries and generate appropriate charts to visualize.
- Learners can use Python libraries of their choice to develop software for their school or any other social good.
- Learners should be sensitized to avoid plagiarism and violation of copyright issues while working on projects. Teachers should take necessary measures for this. Any resources (data, image etc.) used in the project must be suitably referenced.
- The project can be done individually or in groups of 2 to 3 students. The project should be started by students as per discussion in computer lab.
- Student(s) was/were already assigned his/her project in computer lab.

Sample Internet link: <https://sultan-chand.com/ws/ipp12/#p=41>

7) PHYSICAL EDUCATION

Practical 1: Sai Khelo India Test to be attempted as instructed.

Practical 2: Procedure for Asanas. Also state benefits and contraindication for any two Asana for each lifestyle diseases.