



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



DIWALI ASSIGNMENT CLASS : XI

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.

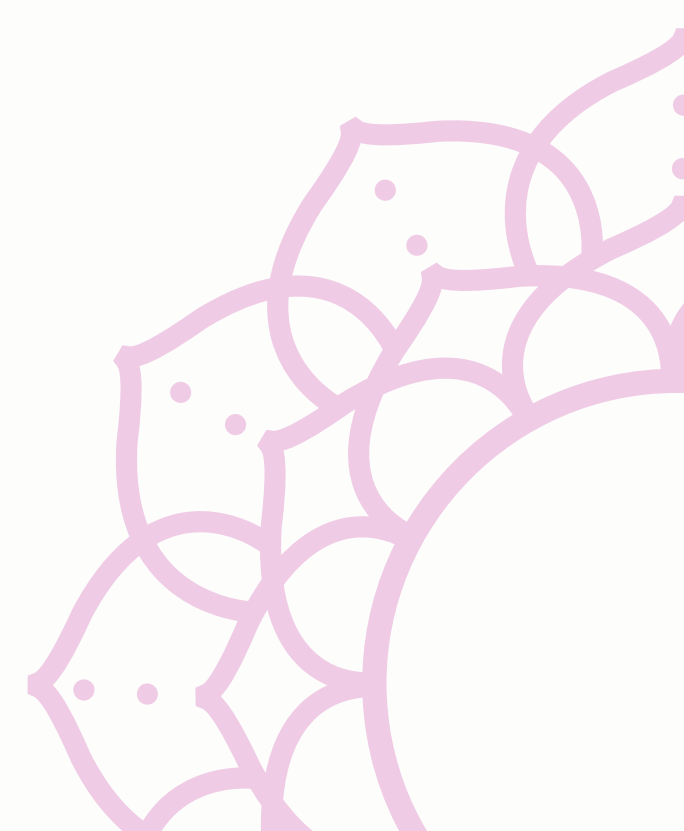
We kindly request that you encourage your child to complete these assignments enthusiastically and curiously. Our teachers have carefully curated them to align with their ongoing subjects, ensuring a seamless blend of celebration and education. Should your child require any support or clarification, 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

11 Science

DIWALI HOLIDAY ASSIGNMENT

1) MATHEMATICS

Prepare a brief overview of the following chapters –

Trigonometric Functions, Binomial Theorem, Straight lines, Conic Section, 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 are 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 The biological insights of abortion.

Q.3 Human immune system and its resistance capabilities.

3) PHYSICS

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

1) To find the force constant of a helical spring by plotting a graph between load and extension.

2) To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.

3) To study the relationship between the temperature of a hot body and time by plotting a cooling curve.

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

Complete your practical file for the following Experiments:

1) Qualitative Analysis of Group-4 (Zinc) and Group-5 (Calcium)

2) Detection of Nitrogen and Halogen in Organic Compound.

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.

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

- Quality of content of the project
- Clarity of thoughts and ideas

- Accuracy of information
- Adherence to the specified timeline
- Content in respect of (spelling, grammar, punctuation)
- 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

Practical file (15 SQL queries)

Data Management: (Suggested SQL Commands)

1. To create a database
2. To create student table with the student id, class, section, gender, name, dob, and marks as attributes where the student id is the primary key.
3. To insert the details of at least 10 students in the above table.
4. To display the entire content of table.
5. To display Rno, Name and Marks of those students who are scoring marks more than 50.

Sample Internet link : <https://sultan-chand.com/ws/ipp11/#p=41>

7) PHYSICAL EDUCATION

Practical 1: Make a labelled diagram of 400 m track and field with computations.

Practical 2: Describe the changing trends in sports and games in terms of changes in playing surface, wearable gears, equipment, and technological advancements.