

VASISHTHA GENESIS SCHOOL, BARDOLI
DIWALI VACATION ASSIGNMENT
ACADEMIC SESSION - 2025-26
CLASS 09

SUBJECT	TASK ASSIGNED
ENGLISH	<p>Art Integrated Project</p> <p>"A Day in the Life" comic strip: Design a comic strip that illustrates a typical day, a major breakthrough, or a significant challenge faced by the scientist. The panels can use a mix of text and illustrations to tell a story. You can use an A4 size paper or chart paper.</p> <p style="text-align: center;">OR</p> <p>Visual biography: Create a visual timeline of the scientist's life, including key discoveries, challenges, and influences. This could be a detailed poster, a series of drawings, or a digital presentation with illustrations. You can use an A4 size paper or chart paper.</p>
MATHEMATICS	<p>Triangle-based Diwali Decoration Poster</p> <p>Task: Draw or make a poster showing different Diwali items (Diya, Kandil, Firecracker) made with triangle shapes.</p> <p>Instructions:</p> <ul style="list-style-type: none"> • Show different types of triangles in the design. • Label the triangle types and mention at least 2 congruent pairs with justification. <p>Prepare a project file which includes all the basic axioms, postulates and theorems related to TRIANGLES. Also include its application in day to day life.</p>
SOCIAL SCIENCE	<p>Imagine that you are forming your own political party and contesting in elections. As a leader of your party, your goal is to win the support of people. Prepare an election manifesto that outlines your promises, vision, and priorities.</p> <p>Your manifesto should include:</p> <ul style="list-style-type: none"> • Name of your political party (Be creative – it could reflect your values or goals) • Symbol and slogan (Design a symbol and write a catchy slogan) • Five main promises or policies (Focus on real issues that matter – school improvement, environment, student well-being, etc.) • Target audience (Whom are you trying to help? Students, local citizens, environment, etc.) • How will you fulfill your promises? (Mention short-term and long-term plans) • Any two innovative ideas or reforms <p>Project Format:</p> <ul style="list-style-type: none"> • Prepare a project file. • Use A4 size paper only. • Project should be Art Integrated. • Paste pictures and graphs wherever necessary. • Project length: 6 to 8 pages
SCIENCE	<p style="text-align: center;">PHYSICS</p> <p>Choose any one activity of the following and complete it.</p> <p>1. Physics Behind Firecrackers</p> <p>Task: Make a short report or poster explaining the physics involved in firecrackers.</p> <p>Include:</p> <ul style="list-style-type: none"> • Newton's 3 Laws of Motion (e.g., action-reaction when crackers burst) • Energy transformation (chemical → sound, heat, light)

2. Gravitational Force on Floating Diya (if placed in water)

Task: Write a short explanation of how a diya floats in water using Archimedes' Principle and buoyancy.

Instructions:

- Explain forces acting on the diya.
- Why does it float or sink?

3. Newton's Laws in Diwali Context (Poster/Report)

Task: Make a creative poster showing examples of all three of Newton's Laws during Diwali.

Examples:

- 1st Law: A rocket sits until ignited.
- 2nd Law: More force → faster rocket.
- 3rd Law: Firecracker burst → action-reaction force.

BIOLOGY

Compare and analysis *normal* crackers and *green* crackers used during Diwali.

Explain how they differ in terms of their **chemical composition, effects on the environment and human health**, and their **importance for a cleaner and safer celebration**.

- Conduct a **simple experiment** to observe the **effect of cracker smoke on plant leaves**. Keep one plant near the area where crackers are burst and another plant away from the smoke.
- Record your observations for **three consecutive days**, noting any changes in leaf colour, freshness, or texture. Present your data in a **table or chart** form.
- Prepare an **art-integrated project** (7–8 pages) including:
- Experiment details, daily plant observations, and photos/drawings.
- Explanation of how **plants help purify the air** after Diwali pollution.
- Creative illustrations, decorations, and a **short concluding message** on celebrating a *Green Diwali*.

CHEMISTRY

PERIODIC TABLE WALL ART

Make a giant wall or mural or creative periodic table using origami, quilling or cardboard art.

Include elements, symbols, atomic number and periodic trends and how many elements are used in Indian tradition.

Example: silver in Ayurveda , copper in utensils , etc

HINDI

पूर्वोत्तर के सात राज्यों (অসম, মেঘালয়, ত্রিপুরা, মিজোরাম, মণিপুর, নাগালেংড়, অরুণাচল প্রদেশ) কে
বারে স্বালোঁ কে জবাব নোটবুক মেঁ লিখিএ।

- অসম কো কিস চীজ কে লিএ প্রসিদ্ধ মানা জাতা হৈ?
- মেঘালয় কা অর্থ ক্যা হৈ আৰ যহু কিস চীজ কে লিএ প্রসিদ্ধ হৈ?
- ত্রিপুরা কী রাজধানী কৌন সী হৈ?
- মিজোরাম কো কিস নাম সে জানা জাতা হৈ আৰ যহুঁ কী প্ৰমুখ জনজাতি কৌন সী হৈ?
- মণিপুর কা এক প্রসিদ্ধ খেল যা নৃত্য বতাইए।
- নাগালেংড় মেঁ কৌন সা প্রসিদ্ধ মেলা মনায়া জাতা হৈ?
- অরুণাচল প্রদেশ কো ভাৰত কে কিস ভাগ কা উজ্জ্বল রাজ্য কহা জাতা হৈ?
- অসম মেঁ বহনে বালী প্ৰমুখ নদী কা নাম ক্যা হৈ?
- মেঘালয় কা সবসে জ্যাদা বাৰিশ বালা গাঁও কৌন সা হৈ?

GUJARATI

1. કવિ ઝવેરયંદ મેધાણી, ઉમાશંકર જોશી, નર્મદ, મકરંદ દવે,

- કવિનું પૂરું નામ
- જન્મ/મૃત્યુ વર્ષ
- મુખ્ય રચનાઓ
- લેખનશૈલી અને વિષયો
- ગુજરાતી સાહિત્યમાં તેમનું યોગદાન

	<p>2. કાવ્ય વિશ્લેષણ (Poem Analysis) આપેલા કોઈ બે કવિની કાવ્યની નીચેની માહિતી લખાવવી:</p> <ul style="list-style-type: none"> ○ કાવ્યનું નામ ○ કવિનું નામ ○ કાવ્યનો સંદર્ભ (50-100 શાબ્દોમાં) ○ કાવ્યમાં આવેલ મુખ્ય છબીઓ (images/metaphors) ○ કોઈ 2 પંક્તિઓ લખીને તેનું અર્થ લખો
INFORMATION TECHNOLOGY	<p>You need to create a PowerPoint presentation about a new car launched by any company.</p> <ul style="list-style-type: none"> • Include these slides: <ul style="list-style-type: none"> ○ About the company launching the car ○ List of cars the company sells ○ Details about the new car launched • Make your presentation neat and organized by: <ul style="list-style-type: none"> ○ Naming each slide properly ○ Using a clear, attractive font for slide titles ○ Adding a footer with today's date and your school name ○ Applying a design theme to all slides ○ Hiding slides for even-numbered science chapters ○ Setting the slideshow to change slides only when you click ○ Keeping the slide navigator visible during the presentation • Add a table showing car models with columns: Model Name, Price, Mileage, capacity. Make it colorful and add a simple animation. • Include pictures and short descriptions of each car model. • Use a different background color on each slide to make the presentation lively. • Save your work as both PowerPoint (PPTX) and PDF. • While saving PDF, set it to show 4 slides per page for printing.

Instructions:

Submission of all assignment will be between 06-11-2025 Thursday to 10-11-2025 Monday.

Internal marks will be given based on completion and timely submission of assignments.