VASISHTHA GENESIS SCHOOL, BABEN, BARDOLI
DIWALI ASSIGNMENT
CLASS 09

<table>
<tr><th>SUBJECT</th><th>TASK ASSIGNED</th></tr>
<tr><td>ENGLISH</td><td>Students can choose any one and prepare the same:-
Reading Task:-
Read about some famous sports personalities after reading about them do the character analysis of the selected personality based on STEAL (Spoken words, Teachings, Emotions, Actions, Looks)
• Take an A3 size paper and present the character analysis on it.
OR
• Take an A3 size color sheet then do the pictorially present the storyline of Happy Prince on a chart paper.</td></tr>
<tr><td>MATHEMATICS</td><td>SEPARATE QUESTIONS ATTACHED HEREWITH</td></tr>
<tr><td>SOCIAL SCIENCE</td><td>Prepare an Inter-Disciplinary Project on the following chapters with Art/Subject Integration:
1. Chapter - 4 History - Forest Society and Colonisation
2. Chapter - 5 Geography - Natural Vegetation and Wildlife
• Students can choose any form of art to prepare for the project.
• Some suggested activities are given below:
✓ Poster on Save Wildlife
✓ PPT on Deforestation by the British Government
✓ Video on Any topic from the chapter mentioned above
✓ Timeline, Concept Maps, etc.</td></tr>
<tr><td>SCIENCE</td><td>PHYSICS & Information Technology (Hard Copy also required)
• Students can choose any form of art to prepare for the project.
How to do: Prepare a PPT on the topics mentioned below as per your roll numbers.
<table>
<tr><th>TOPIC</th><th>ROLL NUMBERS</th></tr>
<tr><td>Motion and its description-I
Included topics- motion, distance, displacement, scalar and vector quantities, uniform motion and non-uniform motion</td><td>01 - 07</td></tr>
<tr><td>Motion and its description -II
Included topics- Speed, velocity, acceleration, equations of motion, graphical representation of motion</td><td>08 - 14</td></tr>
<tr><td>Force and laws of motion- I
Included topics – force, balanced and unbalanced forces, inertia, types of inertia, Newton’s first law of motion,</td><td>15 - 21</td></tr>
<tr><td>Force and laws of motion- II
Included topics - force, momentum, Newton’s second law of motion and its applications, Newton’s third law of motion and its applications</td><td>22 - 28</td></tr>
<tr><td>Gravitation-I
Included topics- universal law of gravitation, applications of universal law of gravitation, free fall, Mass and weight</td><td>29 - 35</td></tr>
<tr><td>Gravitation-II
Included topics- Thrust and pressure, buoyancy, buoyant force, principle of floating or sinking of an object in a liquid, density, Archimedes principle</td><td>36 -till last roll number</td></tr>
</table></td></tr>
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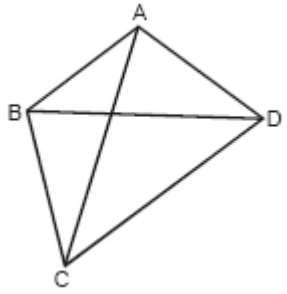
	BIOLOGY: Prepare an art integrated project on animal tissue(Any one type of tissue) . • Your project may also include: ✓ Concept map / Mind map / Pictures/ Diagrams ✓ Students can choose any form of art to prepare for the project. NOTE - The project including relevant explanation of the selected topic should be completed in less than 7-8 pages in A4 size project papers. **CHEMISTRY:** Prepare a table of 30 elements from Hydrogen to Zinc from the periodic table with their atomic numbers, atomic masses and their valency. 1. Find the molecular masses of the following compounds: HCl, H_2SO_4, NaCl, $CaCO_3$, $CuSO_4$, C_2H_5OH, $MgSO_4$, H_2CO_3, C_2H_6, K_2CO_3. 2. Name the elements present in following compounds: Quick lime, hydrogen bromide, Baking powder, Potassium sulphate, washing powder, plaster of Paris.
HINDI	निम्नलिखित में से किसी एक विषय पर परियोजना कार्य तैयार कीजिए |(परियोजना कार्य नोटबुक में तैयार कीजिए) 1.निम्नलिखित पाठ्यपुस्तक को पड़कर पाठ के शिर्षक एवं लेखक तथा कवियों के नामो के साथ उनके चित्र लगाकर संक्षिप्त परिचय नोटबुक में लिखिए| • स्पर्श • संचयन 2 भारत के किन–किन वैज्ञानिकों को नोबेल पुरस्कार मिला है? चित्र के साथ संक्षिप्त जानकारी लिखिए | 3 भारत के मानचित्र पर निम्न स्थानों को दर्शाएँ | (अहमदाबाद, जलियावाला बाग (अमृतसर) , कालापानी (अंदमान), दिल्ली, शिमला, बिहार, उत्तर प्रदेश)
GUJARATI	નીચે આપેલા લેખક અને કવિઓના ચિત્ર લગાવી તેમનો ટુંકમાં પરિચય આપી એમણે આપેલા પુસ્તકોનો પરિચય નોટબૂકમાં લખો. 1. મીરાબાઈ 2. ઝવેરીચંદ મેઘાણી 3. ધ્રુવ ભટ્ટ ૪. સુધા મૂર્તિ ૫. પ્રિયકાન્ત મણિયાર

PTO for Mathematics →

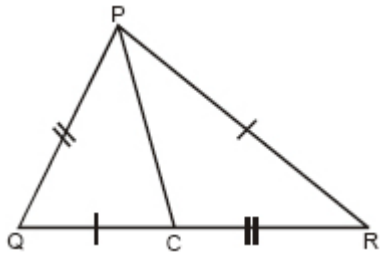
MATHEMATICS ASSIGNMENT

7. Triangles

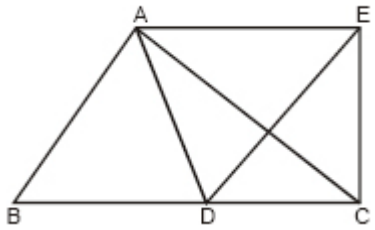
1 ABCD is a quadrilateral in which AD = BC and ∠DAB = ∠CBA. Prove that δABD ≅ ΔBAC.



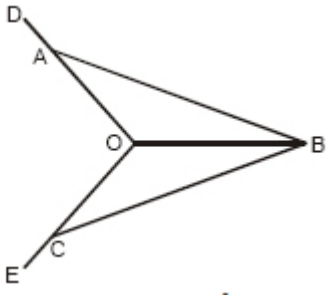
2 In the given figure, triangles PQC and PRC are such that QC = PR and PQ = CR. Prove that ∠PCQ = ∠CPR.



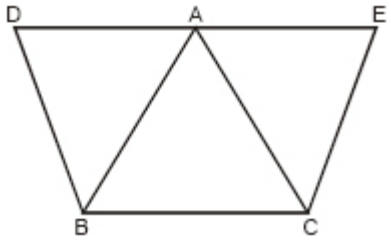
3 In the given figure, AB = AD, AC = AE and ∠BAD = ∠EAC, then prove that BC = DE.



4 In the given figure, AB = BC and ∠ABO = ∠CBO, then prove that ∠DAB = ∠ECB.



5 In the given figure, equilateral ΔABD and ΔACE are drawn on the sides of a ΔABC. Prove that CD = BE.



8.Quadrilaterals

1 If one angle of a parallelogram is 30° less than twice the smallest angle, then find the measure of each angle..

2 If one angle of a parallelogram is twice of its adjacent angle, find the angles of the parallelogram.

3 In quadrilateral PQRS, if ∠P = 60° and ∠Q : ∠R : ∠S = 2:3:7, then find the measure of∠S.

4 If an angle of a parallelogram is two-third of its adjacent angle, then find the smallest angle of the parallelogram.

5 PQRS is a parallelogram, in which PQ = 12 cm and its perimeter is 40 cm. Find the length of each side of the parallelogram.

5.EUCLID"S GEOMETRY

1 If a point R lies between two points P and Q such that PR=QR, then prove that PR=1/2PQ.

2 **.** If B and C are two points between A and D such that AC=BD, then prove that AB=CD.

3 What is Euclid's fifth postulate?

4 What is a minimum number of lines required to make a closed figure?

5 **.** Line PQ is such that it acts as a transversal for two non-parallel, non-intersecting lines AB and CD such that ∟APQ + ∟PQC<180. So, lines AB and CD, if produced will intersect on the left of PQ. This is an example of which postulate of Euclid?