



ADRIEL HIGH SCHOOL
CLASS XII (2023-25)
STREAM- SCIENCE
Happy Summer Vacation!

We at ADRIEL HIGH SCHOOL have planned certain assignments / project work for you to utilize this time in the most constructive way. We have prepared Holiday Homework for you all on the principle of 'learning by doing' for Your holistic development.

Instructions-

1. The written part should be neatly presented in your own handwriting.
2. Practice reading and writing daily.
3. Revise all work done in class.
4. Always try to speak in English with your family members.
5. Participate in household work like watering plants, organizing room and cleaning cupboard .
6. Exercise regularly.
7. Maintain a daily diary.
8. Eat a healthy and balanced diet .
9. To watch movies & books (Movies- Guru, Big Bull, Bazar(Saif Ali Khan related), Room no-404, Partition
 Books Writer- Roald Dahl, Agatha Christie, Enid Blyton, Ruskin Bond

| Subject | Assignment/Project | Instructions |
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| English | Make project on one of the topic given below:- 1 National Education Policy 2021 -views of common people on new education policy 2 Health awareness 3 Impact of social media on youth 4 Digital literacy need of the present scenarios 5 Cybercrime and cyber law 6 Music as a therapy 7 Pros and cons of e-learning 8 Internship - a need for teens | * use A4 size paper * it should have acknowledgement, certificates, index of content with page numbers, introduction of the topics, research analysis ,interview questionnaire or survey, Bibliography along with author's name year of Publication titles, etc.) |
| Physics | 1. To study various factors on which the internal resistance/EMF of a cell depends. 2. To study the variations in current flowing in a circuit containing an LDR because of a variation in (a) the power of the incandescent lamp, used to 'illuminate' the LDR (keeping all the lamps at a fixed distance). (b) the distance of a incandescent lamp (of fixed power) used to 'illuminate' the LDR. 3. To find the refractive indices of (a) water (b) oil (transparent) using a plane mirror, an equi convex lens (made from a glass of known refractive index) and an adjustable object needle. 4. To investigate the relation between the ratio of (i) output and input voltage and (ii) number of turns in the secondary coil and primary coil of a self-designed transformer. 5. To investigate the dependence of the angle of deviation on the angle of incidence using a hollow prism filled one by one, with different transparent fluids. 6. To estimate the charge induced on each one of the two identical Styrofoam (or pith) balls suspended in a vertical plane by making use of Coulomb's law. | Select any one topic of investigatory project. Do your Project in Practical file and investigatory Project File |

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| | <p>7. To study the factor on which the self-inductance of a coil depends by observing the effect of this coil, when put in series with a resistor/(bulb) in a circuit fed up by an A.C. source of adjustable frequency.</p> <p>8. To study the earth's magnetic field using a compass needle -bar magnet by plotting magnetic field lines and tangent galvanometer</p> | |
| Chemistry | <p>Make an Investigatory Project on any one of the given topics. https://drive.google.com/file/d/18s8DN2WOxL8h2S2nt8ku0dF6rp_TRI8d/view?usp=drivesdk</p> | Do your work in Investigatory Project File |
| Biology | <p>Write the observations and draw diagrams of the Spots 1 to 5, 7, and 9 to 11 mentioned in QB of Practical Syllabus as per CBSE guidelines.</p> <p>2. Make Investigatory Project</p> | Do your Project in Practical file and investigatory Project File. |
| Maths | <p>https://drive.google.com/file/d/1FtsoLS34Zmu3Z03xXLv_U0t8XwcvtUkk/view?usp=sharing</p> | Download the holiday homework from given link |
| Informative Practice | <p>Q1. SQL Project</p> <ol style="list-style-type: none"> 1. Library Management System 2. Railway System Database 3. Hospital Management System 4. Carbon Emissions Calculator 5. Blood Donation Database <p>Q2. Explain all the SQL command with example Create Table , Alter Table, Drop Table , Insert, update , Delete, Select, DISTINCT Clause, IN Clause, BETWEEN Clause , LIKE Clause, IS NULL Clause , ORDER BY Clause, GROUP BY Clause</p> | <p>5- Presentation 2- Content 3- On-time Submission</p> <p><u>Project on A4 Size sheets, Use Ring file</u></p> |
| Physical Education | <p>HHW CLASS 12</p> <p>Q1. Revise chapter 1, 2</p> <p>Q2. Prepare an informative and analytical assignment on International Yoga Day (Ref. Chapter 3)</p> <p>Q3. Make an informative and innovative chart on Nutritions.</p> <p>Note : Assignment should be on A4 size sheets and consist of at least 10 pages.</p> | <p>5- Presentation 2- Content 3- On-time Submission</p> |

Happy Holidays
“STAY SAFE,
“STAY HEALTHY”