



ADRIEL HIGH SCHOOL
CLASS XII (2025-26)
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
English	<p>1. Watch any (or all) of the following movies and pen down a review concentrating on the plot, historical/ political background, creative elements, characterization and them, in not more than 350 words.</p> <ul style="list-style-type: none"> ● Schindler's list (1993) ● Good Will hunting (1997) ● The Great Debaters (2007) ● The Blind Side (2009) ● The Social Network (2010) ● Rocket Boys ● Mission Mangal ● Hidden figures ● Enigma <p>2. Mission self- reliant India- it's time to be 'vocal about local'. The Covid-19 crisis has taught India the importance of local manufacturing and supply chain. Write an article in about 200 words for a magazine. Give a suitable title.</p>	<p>English Project should be neatly submitted in coloured A4 size sheets.</p> <p>Rubrics</p> <ul style="list-style-type: none"> ● Content - 3 ● Language - 2 ● Expression -2 ● Presentation -2 ● Timely Submission -1
Physics	<ol style="list-style-type: none"> 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 equiconvex 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. 	<p>Select any one topic of investigatory project. Do your Project in Practical file and investigatory Project File</p>

	<p>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.</p> <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	Complete revision of Chapter solutions and Haloalkanes and Haloarenes including practice of numericals and learning of reactions	
Biology	<p>Write the observations and draw diagrams of the Spots 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>Make a descriptive and innovative project on following topics as per CBSE curriculum and guidelines :</p> <ol style="list-style-type: none"> 1. Story of Pi 2. To develop the heron formula 3. Chronology of indian mathematicians and their contributions 4. Extension of pythagoras theorem 5. To prepare a list of quotations on Mathematics 6. Ramanujan number 7. Development the formula of cyclic quadilateral 8. Application of Algebra in day to day life 9. magic Squares 10. Indian mathematicians and their contributions 	<p>Make a seperate file with innovative ideas . Page limit 5-10 pages.</p> <p>Practice the syllabus.</p> <p>Revise the trigonometry formulas.</p> <p>Rubrics Content : 3 Innovation : 2 Submit on time : 3 Knowledge : 2</p>
Informatics Practices	<p><u>Q1. PROJECT WORK (Using concepts learned in class XI and XII):-</u></p> <p>Choose any one topic from the following :-</p> <ol style="list-style-type: none"> a) Library Management System b) Railway Management System c) Book Shop d) COVID-19 Data Analyzer e) Blood Donation f) Carbon Emissions g) Hospital Management System h) School Management System <p><u>Q2.PRACTICAL FILE:-</u></p> <p>Write minimum 15 programs based on Pandas, 4 based on Matplotlib and 15 SQL queries must be included. your file should consists front page, index, coding with output</p>	<p><u>Instructions for the projects:-</u></p> <p>Your project should consists introduction, objective of the project, Hardware and software requirements, Limitations and future enhancement, CSV file, Coding, Conclusion, Bibliography)</p> <p><u>Tools You Can Use:</u></p> <ul style="list-style-type: none"> • Python Libraries: pandas, matplotlib • Database: MySQL or CSV file • IDE: Python Idle <p><u>Rubrics:-</u></p> <ol style="list-style-type: none"> 5- Presentation 2- Content 3- On-time Submission <p><u>Note:-</u> Mail your project and practical file on the given mail id:- pinki@pratapinternational.com</p>

Physical Education	Prepare a project on Volleyball.	5- Presentation 2- Content 3- On-time Submission
Psychology	Prepare a project from any one of the following topics: Intelligence Stree, Any Disorder ,Attitude , Memory , Personality Social Influence	Project File should contain a case profile, using appropriate methods like interviews, observation and psychological tests. Use a Ring file. Be reliable and creative.
Hindi	ग्रीष्मकालीन गृह कार्य नीचे दिए गए विषयों पर परियोजना कार्य तैयार करें। (क) हरिवंश राय बच्चन- कृष्णा (ख) महादेवी वर्मा- सिद्धार्थ (ग) विभिन्न माध्यमों के लिए लेखन-एहसान एवं शशांक	

Happy Holidays
"STAY SAFE,
"STAY HEALTHY"