

IQRA PUBLIC SCHOOL, ALIGARH
SESSION 2025-2026
Class–XII
Holiday Homework

S. No.	Subjects	Topics
1.	English	<p>Theme: “India Speaks: Reflections Through Language, Culture, and Expression”</p> <p>Page 1 – Literary Appreciation: Poem or Prose Close Reading</p> <p>Task: Choose any regional Indian writer or poet (preferably translated into English) from Arunachal Pradesh, Uttar Pradesh, or Meghalaya.</p> <p>Write a literary analysis (250–300 words) covering:</p> <ul style="list-style-type: none"> A brief about the writer/poet Summary of the chosen text Language and tone used Key message or cultural context Your personal response <p>Optional: Attach the original extract (10–15 lines) you chose for analysis.</p> <p>Page 2 – Comparative Cultural Essay</p> <p>Topic: “Unity in Diversity: A Cultural Tapestry Woven Through Language and Tradition”</p> <p>Write an essay in 300–350 words comparing the cultural uniqueness of Arunachal Pradesh, Uttar Pradesh, and Meghalaya. Focus on:</p> <ul style="list-style-type: none"> Food Festivals Traditional clothing Language and scripts Oral or written traditions <p>Incorporate quotes or cultural sayings where relevant.</p> <p>Page 3 – Creative Writing Task: A Travel Memoir</p> <p>Imagine you visited one of the three states (Arunachal Pradesh, UP, or Meghalaya). Write a memoir-style narrative (250–300 words) including:</p> <ul style="list-style-type: none"> Sensory details (sights, sounds, food, people) A cultural experience or interaction that moved you A moment of personal reflection <p>Title your piece creatively. You may include a sketch, travel quote, or photo if desired.</p> <p>Page 4 - Optional Enrichment</p> <ul style="list-style-type: none"> Translate a short folk tale, recipe, or proverb from a regional language to English Create a small glossary (10 words) of regional expressions with meanings <p>Submission Instructions:</p> <ul style="list-style-type: none"> Present your work in a neatly stapled booklet Handwritten, with proper headings for each page Creative elements are welcome Ensure academic honesty and originality
2.	Urdu	<p>اترپردیش اور اروناچل پردیش کی تہذیب</p> <ul style="list-style-type: none"> رقص (Dances) تہوار / تقریبات (Festivals/ Celebrations) فنون (Art forms) روایتی لباس (Traditional Dresses) روایتی غذائیں/کھانا (Traditional Foods) <p>نوٹ: مندرجہ بالا میں سے کسی دو عنوان پر 1000 ہزار الفاظ پر مشتمل ایک پروجیکٹ (Project) بنائیے۔</p> <p>جس میں تصاویر کا بھی استعمال ہونا چاہیے۔</p>

3.	Mathematics	Learn all the formulae of Inverse Trigonometric Functions and Derivatives. Practice Chapter 2 and Chapter 5.	
4.	Physics	Name of student	Topic
		Afifa khan	To study various factors on which the internal resistance/EMF of a cell depends.
		Fiza Parveen	To study the variations in current flowing in a circuit containing an LDR because of a variation in the power of the incandescent lamp, used to 'illuminate' the LDR (keeping all the lamps at a fixed distance).
		Hiba Naseem	To study the variations in current flowing in a circuit containing an LDR because of a variation in the distance of an incandescent lamp (of fixed power) used to 'illuminate' the LDR
		Hira Naaz	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.
		Kulsum mutahir	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.
		Navisha rahman	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.
		Sabeen khan	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.
		Seemeen Manzoor	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.
		Name of student	Topic (CLASS XII-D)
		Ahmad Taha zubair	To study various factors on which the internal resistance/EMF of a cell depends
		Ali Fawaz	To study the variations in current flowing in a circuit containing an LDR because of a variation in the power of the incandescent lamp, used to 'illuminate' the LDR (keeping all the lamps at a fixed distance).
		Aman Shareef	To study the variations in current flowing in a circuit containing an LDR because of a variation in the distance of an incandescent lamp (of fixed power) used to 'illuminate' the LDR

		Arham taksheel Lodi	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.	
		Ibrahim Abdul Hafeez Khan	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.	
		Mohammad Saad	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.	
		Mohammad shamshad	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.	
		Mohammad Tazeem	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.	
		Mohd Taha	To study the earth's magnetic field using a compass needle -bar magnet by plotting magnetic field lines and tangent galvanometer.	
		Sageer Ahmad	To study various factors on which the internal resistance/EMF of a cell depends.	
		Sanatullah Anees	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.	Chemistry	Name of student	Topic (CLASS XII-A)	
		Affia Khan	Effect of Potassium Bisulphate as a Food Preservative	
		Fiza Parveen	Sterilization of Water Using Bleaching Powder	
		Hiba Naseem	Extraction of various essential oils present in Ajwain (Carum), Illaichi (Cardamom), and Saunf (Fennel Seeds)	
		Hira Naaz	Quantity of Casein in different samples of milk.	
		Kulsum Mutahir	Biodiesel: Fuel for Future	
		Navisha Rahman	Comparative study and qualitative analysis of different brands of cold drinks	
		Sabeen Khan	Effect of Water and Temperature in Varying the Toxicity Levels of Different Pollutants	
		Seemeen Manzoor	Pesticides in fruits and vegetables	
		Name of student	Topic CLASS XII-D	
		Ahmad Taha zubair	Effect of Potassium Bisulphate as a Food Preservative	
		Ali Faraz	Sterilization of Water Using Bleaching Powder	
		Aman Shareef	Extraction of various essential oils present in Ajwain (Carum), Illaichi (Cardamom), and Saunf (Fennel Seeds)	

		Arham Tashkeel Lodhi	Quantity of Casein in different samples of milk.	
		Ibrahim Abdul Hafeez Khan	Biodiesel: Fuel for Future	
		Mohammad Saad	Comparative study and qualitative analysis of different brands of cold drinks	
		Mohammad Shamshad	Effect of Water and Temperature in Varying the Toxicity Levels of Different Pollutants	
		Mohammad Tazeem	Pesticides in fruits and vegetables	
		Mohad Taha	To Check the Ions, Present In The Toothpaste	
		Sageer Ahmad	The Synthesis of Aspirin	
		Sanatullah Anees	Solar Electrolysis for Hydrogen Production	
6.	Biology	<p style="text-align: center;">CLASS XII-A</p> <p>Prepare assignments on the topics assigned during the class.</p> <p>NOTE:</p> <ul style="list-style-type: none"> The assignments should be typed and not handwritten. Size of the print out should be A4. Kindly adhere to the instructions and topics assigned to each student according to their roll numbers. Refer to the NCERT TEXTBOOK content and SYLLABUS for preparing projects. <ol style="list-style-type: none"> Afifa Khan- Infertility and Assisted reproductive techniques Hiba Naseem- Gene expression: The lac operon Hira Naaz- Microbes in household and industrial products Kulsum Mutahir- Microsporogenesis and Megasporogenesis Sabeen Khan- Human Diseases: Typhoid, Pneumonia, Malaria and Ring worm Seemeen Mansoor- DNA Fingerprinting Navisha Rehman- Biotechnology and its applications Fiza Parveen- Sewage treatment <p style="text-align: center;">CLASS XII-D</p> <p>Prepare assignments on the topics assigned during the class.</p> <p>NOTE:</p> <ul style="list-style-type: none"> The assignments should be typed and not handwritten. Size of the print out should be A4. Kindly adhere to the instructions and topics assigned to each student according to their roll numbers. Refer to the NCERT TEXTBOOK content and SYLLABUS for preparing projects. <ol style="list-style-type: none"> Ibrahim- Genetic disorders and Chromosomal disorders Md. Taha- Gametogenesis (male and female) Sageer- Contraceptive methods Shamshad- Pollination: Types and agents Md. Tazeem- Biotechnology: principles and tools Ali Fawaz- Biodiversity: cause of biodiversity loss and its conservation Amaan - DNA Replication 		

7.	Accountancy	<p>Guidelines:-</p> <ol style="list-style-type: none"> 1) The project report should be developed in the following sequence:- <ol style="list-style-type: none"> (a) Cover page should include the title, students information, school and year. (b) List of contents (c) Acknowledgement (d) Introduction (e) Topic with suitable heading (f) Subject matter of the project along with photographs (project should be of 25-30 pages) (g) Conclusions (h) Appendix/Bibliography 2) Cover the project file with brown paper and write your Name, Roll No, Class, section, session, etc. 3) Use blue and black pen to write the project. 4) Course book, reference book and relevant websites can be used to find the subject matter of project <p style="text-align: center;"><u>Topic for the project:</u></p> <ol style="list-style-type: none"> 1) Accounting for partnership firms: -Prepare Journal Ledger, Trial balance. and then <ol style="list-style-type: none"> a) Partnership, features and important provisions. b) Develop a case study showing how two or more friends decide to come together and start a business with certain amount of capital. c) Prepare their partnership deed, share of goodwill in case of admission of a partner, provisions if any. d) Write their transactions in detail during the year and prepare revaluation account, Profit/Loss Appropriation account, Partners capital account and Balance sheet. e) Also discuss the scenario taking another example if a partner retires or dies and when the firm is dissolved. <p style="text-align: center;">OR</p> <ol style="list-style-type: none"> 2) Prepare Financial Statement Analysis of any MNC's covering any two aspects from the following: <ol style="list-style-type: none"> a) Comparative and Common Size financial statements b) Accounting Ratios c) Segment Reports d) Cash flow statement <p>You are also required to write details like introduction of the company, History the company, Profile of the company, its board of directors, share capital etc.</p> <p>Parents are requested to ensure that the students should go through all the instructions given above before making the project.</p>
8.	Business Studies	<p>Guidelines:-</p> <ol style="list-style-type: none"> 1) The project report should be developed in the following sequence:- <p style="margin-left: 40px;">*kindly prepare a soft copy first of 7-10 pages*</p> <ol style="list-style-type: none"> (a) Cover page should include the title, students information, school and year. (b) List of contents (c) Acknowledgement (d) Introduction (e) Topic with suitable heading (f) Subject matter of the project along with photographs (project should be of 25-30 pages) (g) Conclusions (h) Appendix/Bibliography 2) Cover the project file with brown paper and write your name, roll no, Class, section, session, Business studies project with a black sketch pen/ marker. 3) Use blue and black pen to write the project. 4) Course book, reference book and relevant websites can be used to find the subject matter of project <p style="text-align: center;"><u>Topic for the project:</u></p>

		<p>1)Marketing management:- choose any identified product and gives its a)Brand name b) Range of the product c) Identification mark or logo d) tagline e) Labelling and packaging f) Pricing and basis of fixing it g) Selected channels of distribution h) Decisions related to transportation and warehousing i) Promotional techniques j) Grading and standardisation. OR 2)Principle of Management:- choose any departmental store, industrial unit, fastfood outlet or any other organisation and study how principles of management advocated by Fayol or F.W. Taylor are applied there. OR 3)Collect newspaper/magazine clippings of five cases filed by consumers in the consumer court. Find out the rights violated, and the redressal mechanism used. What was the outcome of each case? OR 4)Elements of business environment given on project work and your syllabus.</p> <p>Parents are requested to ensure that the students should go through all the instructions given above before making the project.</p>
9.	Economics	<p>Guidelines:- Note : kindly prepare a soft copy first of 7-10 pages</p> <p>1)The project report should be developed in the following sequence:- (a)Cover page should include the title, students information, school and year. (b) List of contents (c) Acknowledgement (d) Introduction (e)Topic with suitable heading (f)Subject matter of the project along with relevant pictures, graphs and tables (project should be of 15-20 pages) (g)Conclusions (h)Appendix/Bibliography 2) Cover the project file with brown paper and write your name, roll no, Class, section, session, Economics project with a black sketch pen/ marker. 3)Use blue and black pen to write the project. 4)Course book, reference book and relevant websites can be used to find the subject matter of project</p> <p style="text-align: center;"><u>Topic for the Project</u></p> <p>1) Government Budget and it's Components-Analysis of Union Budget 2025-26:-From the data of Union Budget 2024-25, Calculate (a) Revenue Deficit (b) Fiscal Deficit (c) Primary Deficit. Also discuss the implications and measures to reduce them. (Refer chap 10 of Macroeconomics) 2)Human Capital Formation: - Discuss its Sources, Importance and Problems, along with different schemes introduced in Education and Health sectors by the Government of India.(Refer chap 4 of Indian economic development) 3) Reserve Bank of India(RBI) and it's role in control of credit: Discuss the history and functions of RBI and it's role in credit control (Qualitative and quantitative instruments) (Refer chap 6 of Macroeconomics) 4) Foreign Exchange Rate: Discuss it's meaning, types; demand and supply of foreign exchange and how it is determined. (Refer chap 11 of Macroeconomics)</p> <p>Parents are requested to ensure that the students should go through all the instructions given above before making the project.</p>
10.	Political Science	<p>You are required to prepare a PowerPoint presentation (8–10 slides) on one of the following current and syllabus-linked topics: 1. Russia–Ukraine War: Ongoing Impacts on Global Politics and Economy</p>

		2. India’s Foreign Policy in the Modi Era: Shift Towards Assertiveness 3. The Israel–Palestine Conflict: 2024 Escalation and Global Reactions 4. The Rise of Multipolarity: Is US Hegemony Declining? 5. UN Reforms in 2025: Is the Security Council Still Relevant?									
11	History	<p>This is to inform all students that as part of the academic curriculum, each student is required to prepare and submit a project/research paper on the assigned topic. This assignment is a compulsory component of the internal assessment and will be evaluated accordingly.</p> <p><u>Important Instructions-</u></p> <ul style="list-style-type: none"> • Word Limit: [1500–2000 words] • Formatting Guidelines: Typed, Times New Roman, 12-point font, 1.5 line spacing, with proper references or bibliography] • Submission Method: [via email and later hard copy] <p><u>Format for the Paper-</u></p> <p>All students must adhere to the following format while preparing their research papers:</p> <p>1. Title Page</p> <ul style="list-style-type: none"> • Title of the Paper • Student’s Full Name • Roll Number • Instructor’s Name • Institution Name • Submission Date <p>2. Abstract A brief summary of the research (150–250 words) outlining the purpose, methodology, main findings, and conclusion.</p> <p>3. Introduction</p> <ul style="list-style-type: none"> • Background of the study • Objectives of the study • Significance of the study <p>4. Main Body</p> <ul style="list-style-type: none"> • Presentation and interpretation of historical evidence <ul style="list-style-type: none"> • Critical discussion based on sources. • Comparison of differing historical viewpoints <p>5. Conclusion</p> <ul style="list-style-type: none"> • Summary of key findings • Implications • Suggestions for future research perspectives. <p>6. References/Bibliography All sources cited in the paper must be listed in a proper citation style (as explained in class).</p> <div style="text-align: center;"><u>TOPICS</u></div> <table border="1"> <thead> <tr> <th>S.no.</th><th>Name</th><th>Topic</th></tr> </thead> <tbody> <tr> <td>1</td><td>Asfiya</td><td>The Harappan Civilization: Urban Planning and Architecture</td></tr> <tr> <td>2</td><td>Ayesha</td><td>The Delhi Sultanate: Administration and polity.</td></tr> </tbody> </table>	S.no.	Name	Topic	1	Asfiya	The Harappan Civilization: Urban Planning and Architecture	2	Ayesha	The Delhi Sultanate: Administration and polity.
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1	Asfiya	The Harappan Civilization: Urban Planning and Architecture									
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		3	Ilma Khan	The Gupta Age: A Golden Age or a Historical Myth?
		4	Iqra Umar	Women's Participation in the Freedom Movement
		5	Laiba Noor	Sufi Movements: A Comparative Study and Mystical Dimensions
		6	Naushin Jannat	"Mahabharata"- The Great Epic of India
		7	Samra Asim	Mauryan Empire and the Role of Ashoka in Spreading Buddhism
		8	Samreen Khan	The Delhi Sultanate: Art and Architecture
		9	Saniya Parveen	Bhakti Movements: A Comparative Study (Kabir and Nanak)
		10	Umra Yaqub	Religious Developments in Early India: Buddhism.
		11	Yusra Shahzad	Growth of Indian Nationalism and the Role of INC
		12	Afifa Arif	Economic Impact of British Rule in India
		13	Nisha	Society and Economy in the Vedic Period
		14	Mantasha Shamshad	Mughal Miniature Paintings and Patronage of Art
		15	Fatima Zehra	Social and Religious Reform Movements of the 19th Century
		16	Habiba Ahmar	Partition of India: Causes and Consequences
		17	Rida Nadeem	Understanding Ashokan Inscriptions as Historical Sources
		18	Momina Zaheen	The Role of Subhas Chandra Bose and INA in India's Freedom Struggle
		19	Tuba Laiq	Vijayanagar Empire and its Architectural Culture.
		20	Mohd Naved	Mughal Empire: Policies of Akbar and Religious Tolerance
		21	Asif Ghazi	Architecture during the Mughal Period
		22	Shahbaz Ahmad	Gandhian Movements: Non-Cooperation, Civil Disobedience, and Quit India
		23	Albaz Ahmad	Mughal Painting and Patronage of Art
		24	Hamzah Shaikh	Buddhist patronage of Art and Architecture: Ajanta and Stupa.
		25	Yusuf Iqbal	Revolt of 1857: Causes, Nature, and Impact
12.	Physical Education	HPE Project (write about 10 to 15 pages)		
		Environment Conscious Citizens As Part Of Eco Clubs		
		Management Of Soft Tissue Injuries		
		Preparation Of Family Budget And Maintenance Of Daily Household Accounts		
		Running School Café With Focus On Nutrition		
		School Gardening Project		
		Adopting An Orphanage For conducting joyful activities		
		School Water Use Audits		
		Khelo India Program		
		Meaning And Importance Of Yoga		
		Home Water Use Audits		
		Meaning And Importance Of Physical Fitness, Wellness And Lifestyle		
		Setting Up rainwater harvesting structures		
		Leadership Qualities And Role Of a Leader		
		Project on indigenous Methods Of Water conservation		
		Safety measures To Prevent Sports Injuries		
		Metering Use of Water Saving devices/Taps And ensuring no Leakages in Plumbing Pipes etc.		
		Balanced Diet And Nutrition Macro And Micro Nutrients		
		Causes Of Disability		
		Project on awareness and Planting drought prone / native plants / trees		
		Reduce , Recycle, Reuse (most important 3R s) And Now Respect		

	Motor Development In Children
	Yoga For Preventing Obesity
	Postural Deformities And Their Corrective Measures
	Project on Recycling of Water-example from RO plants, etc.
	Motor Fitness Test / Khelo-India National Fitness Test
	How The virus That causes COVID-19 differs from other corona viruses



Principal