



**AL AIN JUNIORS SCHOOL
SUMMER VACATION ASSIGNMENT (2017-18)**

Grade : IX

Subject	Assignment
1. Science a. Physics	<u>Project: 1</u> <u>Topic: Motion</u> <ol style="list-style-type: none"> Plan to go to a place by a vehicle. Take readings of odometer and speedometer after every 5 minutes till you reach your destination. Record these observations in tabular form; plot graphs between distance-time and speed-time. State whether this motion is uniform or non-uniform. <u>Project : 2</u> <u>Topic: Laws of Motion</u> <ol style="list-style-type: none"> Make a power point entitled “Law of Inertia” with 10 slides explaining the concept of Newton’s I law with real life application on inertia. Create a report on Galileo Galilei’s research on I law of motion with appropriate pictures and explanations.
b. Chemistry	Refer the Page No. 6
c. Biology	PROJECT-ANIMAL TISSUES AND ITS TYPES Record with 4 experiments. Test for starch Test for adulterant metanil yellow Plant tissues Animal tissues
2. Maths	Refer the Page No. 8, 9 & 10
3. English	<u>Objectives:</u> <ol style="list-style-type: none"> Develop Reading and writing Skills. Enhance one’s vocabulary and research aptitude. Encourage note making and Life skills. <ol style="list-style-type: none"> Read the Non – Detailed book ‘Three Men a Boat’ Part-1. Prepare Short notes and Character Sketch based on your reading. (Not Summary) Prepare a documentary/Slide show on ‘Environmental Degradation’ with reference to Unit-3 (Environment) in your MCB. Write articles, poem, play or story for the class magazine. It will be compiled after the vacation.
4. Social	Refer the Page No. 4
a. History and civics	
b. Geography	Refer the Page No. 5

c. Economics

Topic: Conduct a Survey and analyze the Disparities in Income and standard of living

Learning Objectives:

After this task, the student shall be able to:

- a. Understand that economic disparities exist in the society.
- b. Identify the causes for economic disparities
- c. List the consequences of economic disparities
- d. Collect relevant data.
- e. Process relevant objectives.
- f. Collate and analyse data collected
- g. Present ideas and content effectively
- h. Work effectively as a team member

Procedure : Collect data on at least 10 individuals (As suggested in below)

Sl No	Income of individuals	Any one topic from the following suggested topics.
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Suggested topics:- mode of transport used by people to commute to their place of work, pocket money given to children, number of times eating out in a week, newspapers and magazines bought by a family, brand of cooking oil, no. of electronic items at home.

Students to analyse data and make notes on:

- a. identification of disparity or similarity, if it exists
- b. possible causes and consequences of disparity or similarity.
- c. to make a presentation in the class on the data collected and analysed.

Assessment Criteria: The assignment will be marked considering the reliability of data collected, analysis and explanation provided. Presentation of data in the class .

Example:

You are collecting information on pocket money received by the children in their locality

Sl No	Income of individuals	Any one topic from the following suggested topics.
1	Rs.20000	Rs. 100
2	Rs.40000	Rs.200
3	Rs.70000	Rs.500
4	Rs.80000	Rs.600
5		
6		
7		
8		
9		
10		

Your finding will as follows

As income increases so does the pocket money provided to children in a family.

1. Second Language

a. Hindi

Refer the Separate PDF Attachment

b. Malayalam

Refer the Separate PDF Attachment

c. French

Refer the Page No. 7

AL AIN JUNIORS SCHOOL
VACATION HOMEWORK – 2017- 2018
GRADE – 9 - HISTORY & CIVICS

1. Complete the Given worksheet –
History - Socialism in Europe & the Russian Revolution
2. **PowerPoint Presentation: Group Work Activity – Preparation & Presentation - HISTORY - TOPIC – Nazism and the Rise of Hitler**

Sub-topics:

Group – 1. Introduction & Birth of the Weimar Republic – Page No. – 49 - 55

Group - 2. Hitler’s Rise to Power – Page No. – 56 – 60

Group - 3. The Nazi Worldview - Page No. – 61 – 65

Group - 4. Youth in Nazi Germany – Page No. – 66 – 70

Group – 5. Ordinary People and the Crimes Against Humanity – Page No. – 71 - 72

3. **Map Work: HISTORY**

Chapter – 1 – The French Revolution of 1789

On the outline Map of France, Mark the following:

1. Bordeaux	2. Nantes	3. Paris	4. Marseilles
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Chapter – 2 – The Socialism in Europe and The Russian Revolution

On the World Map, Mark the Major countries of the First World War

1. Germany	2. Austria - Hungary	3. Turkey	
4. France	5. England	6. Russia	7. USA

Chapter – 3 – Nazism and The Rise of Hitler

On the World Map, Mark the Major countries of the Second World War

1. Germany	2. Italy	3. Japan	
4. U.K.	5. France	6. Former USSR	7. USA
Territories under German Expansion (Nazi Power)			
8. Austria	9. Poland	10. Czechoslovakia	11. Denmark
12. Lithuania	13. France	14. Belgium	

AL AIN JUNIORS SCHOOL
SUMMER VACATION HOMEWORK – 2017-2018
GRADE – 9 – DISASTER MANAGEMENT - Project Work:
(5 Marks)

Every student has to compulsorily undertake a project on ANY ONE of the following units/topics.

The Project Report should be handwritten by the students themselves with appropriate pictures with caption and comprise of not more than 15 (A4 size pages).

1. Getting Acquainted with Disaster Management
2. Specific Hazards and its Mitigation
3. Preventing Common Human Induced Disasters
4. Community Planning for Disaster Management

The project has been carefully designed so as to –

- a) Create awareness in learners
- b) Enable them to understand and co-relate all aspects of selected topic
- c) Relate theory with practice
- d) Relation of different aspects with life
- e) Provide hands on experience

The distribution of marks over different aspects relating to Project Work is as follows:
(Rubrics)

S.NO.	ASPECTS	MARKS
1.	Content accuracy and originality	1
2.	Presentation and creativity	1
3.	Process of Project Completion: Initiative, cooperativeness, participation and punctuality	1
4.	Viva or written test for content assimilation	2

GEOGRAPHY (Notebook Completion) till Drainage Chapter

VACATION ASSIGNMENT
GRADE: 9 - CHEMISTRY

IS MATTER AROUND US PURE AND MATTER IN OUR SURROUNDINGS

1. Why do we call sugar a pure substance?
 2. What is the difference between True solution and colloids?
 3. What are alloys? Why are alloys called as mixture?
 4. Why do we need to separate mixtures?
 5. How can we separate a mixture of salt and ammonium chloride? Draw a diagram.
 6. If 110g of salt is present in 550 g of solution, calculate the concentration.
 7. What is the concentration of a solution which contains 16 g of urea in 120 g of solutions?
 8. How much water should be added to 15 g of salt to obtain 15% salt solution?
 9. A solution contains 5.6 ml of alcohol mixed with 76 ml of water. Calculate the concentration of the solution.
 10. How much water should be added to 12 ml of alcohol to obtain 12% alcohol solution?
 11. If 25 ml of acetone is present in 150 ml of its aqueous solution, calculate the concentration.
 12. During an experiment the students were asked to prepare a 10% (Mass/Mass) solution of sugar in water. Ramesh dissolved 10g of sugar in 100g of water while Sarika prepared it by dissolving 10g of sugar in water to make 100g of the solution.
 - (a) Are the two solutions of the same concentration?
 - (b) Compare the mass% of the two solutions
 13. If the humidity in the air increase then the rate of evaporation: -
 - (a) decrease (b) increase (c) remain same (d) both (b) and (a) depending upon the temperature
 14. Which of the following statement is correct?
 - (a) boiling is a bulk phenomenon and evaporation is a surface phenomenon
 - (b) boiling is a surface phenomenon and evaporation is a bulk phenomenon
 - (c) boiling and evaporation both are surface phenomenon
 - (d) boiling and surface both are bulk phenomenon
 15. If the temperature of a place is increase, then evaporation
 - (a) decrease (b) increase
 - (c) remain same (d) none of the above
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FRENCH PROJECT

Students are requested to do research online or at Libraries around Al Ain. Please visit the Library at Al Ain at French Institute Alliance Francaise d'AlAin for more info.

<https://ae.ambafrance.org/L-Alliance-Francaise-d-Al-Ain-1941>

1) Rendre visite au musée, à l'Alliance française, Carrefour ou Géant, un café français comme la Brioche etc. et écrivez une revue. Visit any museum in UAE or abroad, or any French institute like Alliance française, French chain of stores like Carrefour or Geant, a French coffee shop like la Brioche etc. and write a short write-up on it. (30-35 words)

Or

2) Read any ONE of these books online or from the library and write a summary of the story in FRENCH in not more than 100 words.

French Children's Book: "Le Petit Nicolas" by René Goscinny

French Modern Classic: "Les Misérables" by Victor Hugo

French Classic: "Notre Dame de Paris" by Victor Hugo or "Les trois Mousquetaires" by Alexandre Dumas

French Comics: 1. "Asterix" in French by René Goscinny, Albert Uderzo, Jean-Yves Ferri

2. "The Adventures of Tintin" in French by Hergé



MATH HOLIDAY ASSIGNMENT

Grade 9

SUBJECT : Mathematics

I Assignment:

1) An independent task sheet including all IMPORTANT NCERT text book questions and examples is provided. Complete all the questions of the TOPICS/CHAPTERS COVERED till June in A-4 size sheets and submit it in a file.

II RESEARCH Based Assignment

Surf on net to get information about Euclid and his postulates and axiom and then complete the task as assigned

- 1) **Individual task:** Make a book let or an album on EUCLID'S GEOMETRY it should include
 - (i) Index
 - (ii) Acknowledgement
 - (iii) Introduction
 - (iv) Euclid's information
 - (v) Postulates and Axioms
 - (vi) Bibliography

Note: You can include pictures and drawings also. Marks will be assigned according to the above criteria

- 2) **GROUP ACTIVITY:** A power point presentation on EUCLID GEOMETRY. (Note: Groups will be allotted and you will be presenting it to the class)

INDEPENDENT TASK SHEET
DETAILS OF THE CONCEPTS TO BE MASTERED BY EVERY CHILD OF CLASS IX
WITH EXERCISE AND EXAMPLES OF NCERT TEXT BOOKS.

Symbols used

* Important Questions

** Very Important Questions

*** Very Very Important Questions

S. No.	Topic	Concept	Degree of Importance	NCERT Book
1.	Number System	Rational Numbers	**	Example - 2 Ex. 1.1 Q: 2, 3
		Irrational Numbers	**	Example 3, 4 Ex. 1.2 Q 3
		Real Numbers and their decimal expansion and number line	***	Example 7, 8, 9, 11 Ex. 1.3 Q 3, 7, 8 Ex. 1.4 Q 1, 2
		Operations on Real Numbers	***	Example 18, 19, 20 Ex. 1.5 Q: 4, 5
		Laws of Exponents for Real Numbers	*	Example 21 Q: 2, 3
2.	Polynomials	Polynomials in one variable and zeroes of a polynomial	*	Ex. 2.1 Q 5 Example 2, 4, 5 Ex. 2.2 Q 2, 4
		Remainder Theorem	***	Example 6, 7, 9 Q: 1, 2
		Factorization of Polynomial	***	Example 12, 13, 14, 15 Ex. 2.4 Q 1, 2, 4, 5
		Algebraic Identities	***	Example 17, 18, 20, 21, 22, 23, 24 Ex. 2.5 Q2, 4, 5, 6, 9, 11, 12, 13, 14

3.	Coordinate Geometry	Cartesian System	**	Example 2 Ex. 3.2 Q: 2
		Plotting a Point in the Plane	***	Example 3 Ex. 3.3 Q 1, 2
4.	Introduction to Euclid's Geometry	Axioms and Postulates	*	Example 1 Ex. 5.1 Q: 2, 4, 6 Ex. 5.2 Q: 2
5.	Lines and Angles	Basic Terms and Definition	**	Example 1, 3 Ex. 6.1 Q: 3, 5
		Parallel Lines and a transversal	**	Example 4, 6 Ex. 6.2 Q: 3, 4, 5
		Angle Sum Property of a triangle	***	Example 7, 8 Ex.: 7.1 Q: 1, 3, 5, 7, 8
		Properties of congruency of triangles	**	Example 4, 5, 6 Ex. 7.2 Q: 2, 4, 5, 6 Ex. 7.3 Q: 2, 4
		Inequalities in a triangle	*	Example 9 Ex. 7.4 Q: 2, 3, 5
7.	Heron's Formula	Area of triangle by Heron's Formula	*	Example 1, 3 Ex. 12.1Q: 4, 5, 6
		Application of Heron's Formula	***	Example 6 Ex. 12.2 Q: 1, 2, 5, 9