

**Grade : XI B**

**Date of submission :  
1/9/2023**

**Business studies (054)**

**Max Marks : 20**

**Dear students,**

**Here are the subject-wise holiday assignments. Kindly go through the instructions carefully (under each subject), complete the task and submit them on the reopening day of the school after the summer vacation**

### **General Guidelines for Project work.**

By means of Project Work the students are exposed to life beyond textbooks giving them opportunities to refer materials, gather information, analyze it further to obtain relevant information and decide what matter to keep.

#### **ASSESSMENT**

The marks will be allocated on the following heads.

1. Initiative, cooperativeness and participation
2. Creativity in presentation
3. Content, observation and research work
4. Analysis of situations
5. Viva

#### **Project file should contain**

Cover page, Acknowledgment, certificate page (will be provided from the school), topic, index, Project Data collected, survey, analysis and interpretation, graphical representation, conclusion and bibliography.

**Students must take any one topic during the academic session of Class XI**

#### **CASE STUDY ON A PRODUCT**

- a) Take a product having seasonal growth and regular demand with which students can relate.  
**For example,**  
Apples from Himachal Pradesh, Kashmir.  
Oranges from Nagpur,  
Mangoes from Maharashtra/U.P./Bihar/Andhra Pradesh etc.  
Strawberries from Panchgani,  
Alivora from Rajasthan,  
Walnuts/almonds from Kashmir,  
Jackfruit from South,  
Guavas from Allahbad,  
Fishes from coastal areas.  
Dates of UAE

Or any other product which student prefer.

Students may develop a Case Study on the following lines:

- (i) Research for change in price of the product. For example, apples in Himachal Pradesh / dates in UAE during plucking and non -plucking season.
- (ii) Effect on prices in the absence of effective transport system.
- (iii) Effect on prices in the absence of suitable warehouse facilities.
- (iv) Duties performed by the warehouses.
- (v) Demand and supply situation of the product during harvesting season, prices near the place of origin and away. Students may be motivated to find out the importance of producing and selling these products and their processed items along with the roles of Transport, Warehousing,

## AIDS TO TRADE

### **Banking.**

Take banking as aids to trade and gather the following information.

- i) Development of banking in India/ UAE
- ii) Types of banks
- iii) Functions of banking
- iv) Service of banks
- v) Types of deposit accounts
- vi) Importance of banking in Indian economy/ UAE economy
- vii) Banking regulation Act.
- viii) RBI/ Central Bank of UAE

### **Insurance**

Insurance and gathering information on following aspects

1. History of Insurance Lloyd's contribution. 2. Development of regulatory Mechanism. 3. Insurance Companies in India /UAE 4. Principles of Insurance. 5. Types of Insurance. Importance of insurance to the businessmen. 6. Benefits of crop, orchards, animal and poultry insurance to the farmers. 7. Terminologies used (premium, face value, market value, maturity value, surrender value) and their meanings. 8. Anecdotes and interesting cases of insurance. Reference of films depicting people committing fraudulent acts with insurance companies. 9. Careers in Insurance.



AL AIN JUNIORS SCHOOL  
INDIAN SYSTEM

**AL AIN JUNIORS SCHOOL  
Holiday Assignment (2022-23)**

**Grade : XI B**

**Date of submission:  
1/09/2023**

**Accountancy (05)**

**Max Marks:10**

**HOLIDAY ASSIGNMENT.**

**Topic- SOURCE DOCUMENT AND PREPARATION OF VOUCHERS**

**Student should prepare an assignment on the topic – SOURCE DOCUMENTS AND VOUCHERS**

- 1) Meaning and concept of Source documents and Vouchers**
- 2) Types of Vouchers**
- 3) Preparation of Vouchers**
- 4) Collect/Draw pictures of Accounting Vouchers and affix on the left side of pages.**

**General Guidelines for Project work.**

By means of Project Work the students are exposed to life beyond textbooks giving them opportunities to refer materials, gather information, analyze it further to obtain relevant information and decide what matter to keep.

**The Assignment should contain**

**Cover page,**

**Topic,**

**Index,**

**Data collected,**

**Conclusion and**

**Bibliography**

- Photos/ paper cuttings are all pasted on the left side of the paper.**
- Project work should be hand written.**
- The Project File, marks are awarded based on - Content , Coverage , Presentation, Interpretation and Conclusion, Originality and Quality of work.**

# AL AIN JUNIOR SCHOOL

## Department of English

CLASS: 11

### OBJECTIVES:

To explore the thematic relevance beyond classroom.

To develop empathy and co-relatedness with the society.

To develop critical thinking, language and ICT skills

Instructions for Holiday home work:

#### **Project: A**

Students will have to read newspaper daily during summer holidays. Then, they will find any enthralling article/report/editorial content which amused them the most. Students will paste that content in their class notebook and will write about their opinion/ views/ likeness/unlikeness about it.

Create a video report of this write up. Recording should be of 3-4 minutes.

The Pasted news should be original not photocopied.

#### **Project B**

**Read any two of the novels suggested below:**

- a. The Adventures of Huckleberry Finn by Mark Twain
- b. 1984...by George Orwell
- c. To Sir with Love- E.R.Braithwaite
- d. Great Expectations- Charles Dickens

**Write a book review and present it in a file.**

Contents of the Book Review are as follows:

Content page, Introduction, Short summary cum review 200-300 words, creative depiction of the novel (through a mind map or graphic organizer or power point etc.) Commentary on the main Characters or comparison / contrast the main Character, Critical evaluation of the plot, story line, about the author, Acknowledgement, Source ([Art Integration](#))

#### **Class magazine:**

Every student should bring his contribution to the class magazine in any field of his/her interest.(short story, crossword puzzles with answers below, mathematics puzzles with answers below, articles, drawings, innovative thoughts..)

Contributions should be in neat unruled A4 size sheet with passport size photograph, name, and class written at the top right corner.

**Let us spend this Summer reading some classics**

1. Moby-Dick; or, the Whale
2. The Pearl - John Steinbeck
3. The Importance of Being Earnest - Oscar Wilde
4. The Taming of the Shrew - William Shakespeare
5. The Old Man and the Sea - Ernest Hemingway
6. Othello - William Shakespeare
7. Wuthering Heights - Emily Brontë
8. The Grapes of Wrath - John Steinbeck
9. A Midsummer Night's Dream - William Shakespeare
10. Great Expectations - Charles Dickens
11. Jane Eyre - Charlotte Brontë
12. The Adventures of Huckleberry Finn - Mark Twain
13. Lord of the Flies - William Golding
14. To Kill a Mockingbird - Harper Lee

Grade : XI B

Date:01/7/2022

Due date: Reopening  
day

### SUBJECT: MARKETING

#### **Guidelines for Project Work in Marketing(Class XI)**

The objectives of the project work are to enable learners to:

- ☐ Probe deeper into theoretical concepts learnt in class XI
- ☐ Analyse and evaluate real world marketing scenarios using theoretical constructs and Arguments
- ☐ demonstrate the learning of marketing theory
- ☐ Follow up aspects of marketing and employability skills in which learners have interest
- ☐ develop the communication skills to argue logically

#### **The expectations of the project work are that:**

- ☐ Learners will complete only ONE project in each academic session.
- ☐ **Project should be of 3,500-4,000 words (excluding diagrams & graphs), preferably Hand-written.**

**Learners may work upon the following lines as a suggested flow chart: Choose a title/topic**

- 1) Collection of the research material/data
- 2) Organization of material/data
- 3) Present material/data
- 4) Analysing the material/data for conclusion
- 5) Draw the relevant conclusion.
- 6) Tables and graphs of the related topics.
- 7) Making vedio,PPT based presentation to get through the test on demonstration of skill competency.

#### **Presentation of the Project Work**

Expected Checklist: ☐ Introduction of topic/title ☐ Identifying the causes, consequences and/or remedies ☐ Various stakeholders and effect on each of them ☐ Advantages and disadvantages of situations or issues identified ☐ Short-term and long-term implications of marketing strategies suggested in the course of Research ☐ Validity, reliability, appropriateness and relevance of data used for research work and for presentation in the project file ☐ Presentation and writing that is succinct and coherent in project file ☐ Citation of the materials referred to, in the file in footnotes, resources section, Bibliography etc.

#### **Mode of presentation/submission of the Project:**

At the end of the stipulated term, each learner will present the research work in the Project File to the External and Internal examiner.

The questions should be asked from the Research Work/ Project File of the learner.

The Internal Examiner should ensure that the study submitted by the learner is his/her own original work. In case of any doubt, authenticity should be checked and verified.

The presentation of each student will be assessed(in terms skills). The vedio and PPT like materials utilised for undergoing the skill competency test will be scrutinised.

**Marking Scheme:**

S.No	Elements	Marks
1	Project	10
2	Practical file	15
3	Demonstration of skill competency via Lab activity	10
4	Viva-voce	5
5	Total	40

**Suggested list of projects:**

**Students should do any one of the following projects.**

1. Prepare a practical file by collecting print advertisements and analysing the message conveyed in marketing of goods, services people, ideas, experience, events, places, properties, organisations and information. Suggest an alternative mode of communication to the firm and create an advertisement for the same.
2. Visit in a group to different marketing organisations in your locality (distributors, wholesalers, retailers). Make a detailed project report to find the marketing activities of each of them respectively. Also identify different activities followed in selling and marketing.**(Permission will be granted if the normalcy revisited after corona effect petered out)**
3. Prepare a project report on macro environmental scanning of a firm or an industry of your choice.
4. Identify a firm of your choice and prepare a detailed file on its micro environment.
5. Prepare a project report by visiting your nearby market and find how many atta (or pen) brands are available? Which brand is targeting which segment of the market and why? Also discuss targeting and positioning strategy of the brand. Suggest alternative strategies and justify.**(Permission will be granted if the normalcy revisited after corona effect petered out)**
6. Prepare a detailed report of the marketing mix of a prominent consumer good and a service provider, for its multiple brands.
7. Interview your friends, parents, relatives for a recent purchase made by them. Prepare a detailed project report on the same.**(Permission will be granted if the normalcy revisited after corona effect petered out)**
8. In today's context, take example of at least 10 industries working in different sectors for their ETOP profit.  
 How the price crude oil and politics play a role in the establishment and survival of own industry.

**9. Selling Vs. Marketing:**

- a) Why is selling a part of marketing?
- b) Suggest with suitable example of different companies with their brands.
- c) How is the marketing concept applied in those different companies.
- d) Compare the concept of selling with marketing.
- e) Concept/ Philosophies of Marketing
- f) Collection of name of different companies with their product.
- g) Classify their products and identify the marketing concept/ Philosophy used by the company to be in the market.

**Questionnaire:**

Your project work should be well backed by the novel evidence that you have through conducting surveys. While conducting surveys, you have to prepare the questionnaire(having essential questions) in full fledged manner.

- Questionnaire should be of 4 Pages. The survey to be administered to 10 respondents.
- Each product should be compared with any 3 brands of choice.
- Questions should include all elements mentioned in the questions.
- Prior consent regarding the questions in the questionnaire to be taken from the subject teacher before the survey is administered.
- Students should take their Emirates Id and certificate provided during their visit.
- The survey can be permitted in line with ADEK Guidelines to be followed by the school in the midst of Covid-19 pandemic.

**Essentials:**

- The total length of the project will be of 35 to 40 pages. (Excluding questionnaire and 10 graphs with observations).
- The project should be handwritten in blue/ black pen.
- The project report should be developed in the following sequence Cover page should include the title of the Project, student information, school and year. List of contents. Acknowledgements and preface (acknowledging the institution, the places visited and the persons who have helped).
- Introduction.
- Topic with suitable heading. Planning and activities done during the project, if any. Observations and findings of the visit. Conclusions (summarized suggestions or findings, future scope of study). Photographs (if any).
- Appendix Teacher's observation. Signatures of the teachers.



## **SUBJECT: ECONOMICS**

### **Guidelines for Project Work in Economics (Class XI)**

The objectives of the project work are to enable learners to:

- ☐ Probe deeper into theoretical concepts learnt in class XI
- ☐ analyse and evaluate real world economic scenarios using theoretical constructs and

Arguments

- ☐ demonstrate the learning of economic theory
- ☐ Follow up aspects of economics in which learners have interest
- ☐ develop the communication skills to argue logically

The expectations of the project work are that:

- ☐ Learners will complete only ONE project in each academic session.
- ☐ **Project should be of 3,500-4,000 words (excluding diagrams & graphs), preferably Hand-written.**

- ☐ It will be an independent, self-directed piece of study

**Learners may work upon the following lines as a suggested flow chart: Choose a title/topic**

- 1) Collection of the research material/data
- 2) Organization of material/data
- 3) Present material/data
- 4) Analysing the material/data for conclusion
- 5) Draw the relevant conclusion

### **Presentation of the Project Work**

Expected Checklist: ☐ Introduction of topic/title ☐ Identifying the causes, consequences and/or remedies ☐ Various stakeholders and effect on each of them ☐ Advantages and disadvantages of situations or issues identified ☐ Short-term and long-term implications of economic strategies suggested in the course of

Research ☐ Validity, reliability, appropriateness and relevance of data used for research work and

for presentation in the project file ☐ Presentation and writing that is succinct and coherent in project file

☐ Citation of the materials referred to, in the file in footnotes, resources section, Bibliography etc.

### **Mode of presentation/submission of the Project:**

At the end of the stipulated term, each learner will present the research work in the Project File to the External and Internal examiner.

The questions should be asked from the Research Work/ Project File of the learner.

The Internal Examiner should ensure that the study submitted by the learner is his/her own original work. In case of any doubt, authenticity should be checked and verified.

**Marking Scheme:****Marks are suggested to be given as – Marks Allotted**

S. No	Items	Marks
1	Relevance of the topic <b>3</b>	3
2	Knowledge Content/Research Work <b>6</b>	6
3	Presentation Technique <b>3</b>	3
4	Viva-voce <b>8</b>	8
5	<b>Total</b>	<b>20</b>

**TOPICS:****Suggestive List of Projects:**

Class XI	
• Effect on PPC due to various government policies	• Invisible Hand (Adam Smith)
• Opportunity Cost as an Economic Tool (taking real life situations)	• Effect of Price Change on a Substitute Good (taking prices from real life visiting local market)
• Effect on equilibrium Prices in Local Market (taking real life situation or recent news)	• Effect of Price Change on a Complementary Good (taking prices from real life visiting local market)
• Solar Energy, a Cost Effective Comparison with Conventional Energy Sources	• Bumper Production- Boon or Bane for the Farmer
• Any other newspaper article and its evaluation on basis of economic principles	• <b>Any other topic</b>



AL AIN JUNIORS SCHOOL  
INDIAN SYSTEM

## AL AIN JUNIORS SCHOOL Holiday Assignments(2022-23)

Grade : XI B

Date:01/7/2022

PSYCHOLOGY (037)

Max Marks:30

Submission:5/9/22

### PSYCHOLOGY

#### PROJECT – CASE STUDY ON ANY PSYCHOLOGICAL DISORDER.

Instructions and Guidelines :

1. The students shall be required to undertake one project during vacations.
2. Students have to choose any one psychological disorder.
3. Some of psychological disorders to be selected are Anxiety disorder, Somatoform disorder, Dissociative disorder, Mood disorder, Substance abuse, Schizophrenic Disorder, Behavioural and Developmental disorders, Dyslexia, ADHD etc.
4. Students should prepare a case study on real life client who are suffering from any of above disorder.

The project would involve the use of different methods of enquiry and related skills

The format for the project work will be:

1. Index
1. Introduction
2. Details of selected disorder
3. Causes
4. Identification of data
5. Case history of client
6. Use of psychometric tests
7. Data analysis
8. Conclusion
9. Bibliography

In the Practical examination, the student will be required to administer and interpret two psychological tests.

**marks 30**

**Total**

- ⊙ Practical File and Case profile  
(10 Marks)
- ⊙ Viva Voce (Case profile and practical)

(05 Marks)

- Two practicals (5 for conduct and 10 for reporting)  
(15 Marks )

Dear Students,

Please complete all your notebook pending work till chapter 2 and submit it for correction after summer break.

Seasonal Greetings and Happy Vacation.



ALAIN JUNIORS SCHOOL 2022-23

**Department of science**

GRADE: XI A/C

PHYSICS

**ASSESSMENT TECHNIQUE: INVESTIGATORY PROJECT**

**OBJECTIVE:** Physics is known as the science of energy and matter. It includes the study of energy, matter related to light, heat motions and force. Well, the extension of modern physics has expanded to nuclear physics, plasma, particles and cryogenics. Explore the laws of physics and its role in our daily life with these **Physics** fair projects. **Choose any one investigatory project, relate it to real life experiences, and explore the world of Physics.**

**[CHOOSE ANY ONE FROM THE GIVEN LIST OR YOU CAN DO YOUR OWN PROJECTS .....Make working models, still models, AI integrated and Art integrated projects.....choice is yours]**

**INVESTIGATORY PROJECT- INNOVATION, SUSTAINABILITY AND CREATIVITY**

1. Develop a model to represent the collision of two black holes, the gravitational waves that result and the waves' propagation through space-time.
2. Learn about Mars, design a mission to explore the planet, build and test model spacecraft and components, and engage in scientific exploration.
3. Design, build and program a robotic “super crawler” to transport a payload from a starting position to a target launch pad, deliver the payload in an upright position and return the robot to the starting point.
4. Students develop spreadsheet models that describe the relationship between the mass of a spacecraft, the force acting on the craft, and its acceleration.
5. Use satellite data to help determine the greatest renewable energy potentials in any given region and develop graphing skills.
6. Design and build a solar hot water heater and see how big a temperature change they can get.
7. Use marshmallows to model the formation of silicates – the family of minerals that make up most of Earth’s crust – then analyze their chemical and physical properties.

8. Use the mathematical constant pi to determine the force observed by a hydrogen ion trapped in Earth's magnetic field.
9. Use the mathematical constant pi to calculate the amount of energy put out by a laser to determine if it can explode an ice sample for analysis.
10. Use pi to calculate how much water could be contained within a cloud.
11. Explore how metal reactivity relates to space exploration and spacecraft design.
12. Students use a visual programming language to create a video game that simulates the process of collecting samples on Mars.
13. Program a rover to get from point A to point B on a map without driving across any of the craters located between the two points.
14. Use microcontrollers and temperature sensors to measure the flow of heat through a soil sample.
15. Build a paper helicopter, then improve the design and compare and measure performance.

#### 16. Measuring the Thrust of a Balloon Powered Car

<http://www.nationalstemcentre.org.uk/elibrary/resource/1278/measuring-the-thrust-of-a-balloon-powered-car>

About: Calculate the thrust of a balloon powered car, exploring thrust and Newton's Laws of Motion.

#### 17. Make your own Spectrometer

<http://www.nationalstemcentre.org.uk/elibrary/resource/3330/make-your-own-spectrometer>

About: Make a spectrometer, to be used to understand light waves, spectroscopy, and atomic structure.

#### 18. Seeing Beyond the Visible

<http://www.nationalstemcentre.org.uk/elibrary/resource/2501/seeing-beyond-the-visible>

About: Activities that can be used when introducing the electromagnetic spectrum or discussing colours.

#### 19. Celestial Navigation

<http://www.nationalstemcentre.org.uk/elibrary/resource/7342/celestial-navigation>

About: Use a spaceflight simulator to explore real astronomical data as you fly through space

5. Go with the Flow: Investigating Bouncy Fluids and Other Strange Materials

<http://www.nationalstemcentre.org.uk/elibrary/resource/4911/go-with-the-flow-investigating-bouncy-fluids-and-other-strange-materials>

About: Investigate materials that have unusual and interesting flow properties.

20. Tool Holder Design <http://faraday.theiet.org/resources/overview/tool-holder-design.cfm>

About: Use knowledge of electromagnetism to design and build a magnetic tool holder for a surgical robot.

21. Physics in Concert

[http://www.iop.org/education/teacher/resources/concert/page\\_52849.html](http://www.iop.org/education/teacher/resources/concert/page_52849.html)

About: Learn about engineering and how physics applies in the context of planning a music event.

22. To Study of Pascal's Law and its Applications. **[RELATE TO REAL LIFE SITUATIONS]**

23. To Study and Analysis of the Black Hole Thermodynamics.

24. To make a Solar Power Grill from the Recycled Carton Box.

25. Physics Project on Nanotechnology: The Smaller the Stronger.

26. Study of the Observations of Gas Present in Infrared Spectrum.

27. To Study and Perform the Zero Gravity Elevator Physics Experiment.

28. To Study the Frequency Relationship of the Nodes in Musical Harmony.

29. To Study the Various Effects of Temperature on the Disposable and Non-Disposable Batteries.

30. Verification of Hooke's law.

31. To demonstrate that sound needs a material medium for propagation.

32. To design an appropriate logic gate combination for a given truth table.

**(AI INTEGRATED)**

**OR**

(A) Plan to go to a place by a vehicle. Take readings of odometer and speedometer after every 2 minutes till you reach your destination. Record these observations in tabular form.

❖ Data representation and analysis

An online open-source website is available at <https://datavizcatalogue.com> where the students can observe various types of representations that can be used in data visualization.

❖ Plot distance – time and speed – time graphs. State whether this motion is uniform or non- uniform.

❖ Visual and spatial representation of objects in motion.

go to <https://autodraw.com>.

❖ Use Google map in determining speed limits for vehicles in UAE and find out the vehicles that crosses the speed limit (using artificial intelligence). Analyze the accident rates and its severity due to this negligence and comment on it. [Rule Based AI. students go to <https://maps.google.com> and enter a specific source and destination.]

(B) Collect information about Galileo and Newton about their contribution in understanding the motion of objects.

❖ Narrate story about great scientists and their discoveries using story speaker

Link to install Story Speaker extension for Story Speaker:

<https://chrome.google.com/webstore/detail/story-speaker/ohfibfhfbhknfdkipjdopbnegkbbkjpj> [ if available]

❖ Introduction to Story Speaker:

<https://www.youtube.com/watch?v=wsrzvYYvhH8&feature=youtube>

(C) Innovative working models with video/Audio presentation.

❖ Toy making from thrash <http://youtube.com/watch?v=YOllmFfELT8>

❖ **TAKE PRINT OUT OF THE PROJECT AND SUBMIT IT AS A FILE:**

**Make power point presentation /video presentation of the given project**

**Rubrics for assessment:**

**PROJECT COMPLETION (5)**

**1. UNDERSTANDING (1)**

**2. RELEVANCE AND DEVELOPMENT OF TOPIC (1)**

**3. APPLICATION/ INNOVATION (1)**

**4. CREATIVITY (1)**

**5. SCIENTIFIC ATTITUDE (1)**





**Summer Holiday Homework**

**INVESTIGATORY PROJECT (2022-2023)**

**Submission by 5/8/2022**

**Guidelines**

- Do internet research and watch you tube videos on relevant topic.
- Make a report on the TOPIC given and try to integrate it with ART.
- Try to include some pictures related to the TOPIC.
- If possible try to connect it with cross curricular link.

Sl No	Names	PROJECT
1	Aafreen Ibrahim	Medicines related to COVID-19 being used worldwide .
2	Aamir Ahmed Rasheed	Conditions for setting of cement
3	Amna Furkhan Ali	Cream preparation
4	Azzah Noufal	Food preservation chemistry-with making of things
5	Fathima Nowshad	Kitchen chemistry with preparation of things-pickles, cake, bread,jam, squash etc
6	Hajira Habeeb	Rate of evaporation of different liquids and different conditions
7	Hussain Naeem Ujjainwala	Conditions for setting of cement
8	Jinelle Marie Aranjo	Hand Sanitizers ,Soaps –As our life
9	Justin Benoi	Amount of casein in different milk
10	Mohamed Hasil Nediyaparambil Hasil	Magic with Chem experiments(few examples)

11	Mohamed Idris	Rate of fermentation of different flours.... temperature ,humidityconditions...
12	Mohamed Thareef	Study of the methods of purification of water .
13	Mohammad Hannan Habbibulla Hafeez	Colloids ,Aerosols-Chemistry in Daily Life
14	Mohammed Nibras	Checking the bacterial contamination in drinking water by testingsulphide ion
15	Mohsin	Study the effect of acids and bases on the tensile strength of fibers.
16	Nabeel Haqqani	Conditions for setting of cement
17	Naji Abdul Azeez	Hand Sanitizers ,Soaps –As our life
18	Neha Mohammad Noushad	Harmful effects of polymers: Polystyrene ,Teflon
19	Parvati Vikas	Amount of casein in different milk.
20	Riyah Gani	Study of the methods of purification of water
21	Samyog Shrestha	Rate of fermentation of different flours.... temperature ,humidityconditions...
22	Sayyeda Areeba	Investigation of the foaming capacity of different washing soaps and the effect of addition of Sodium carbonate on it.
23	Sheikha Ayoob	Conditions for setting of cement
24	Tessa maria theodore	Colloids ,Aerosols-Chemistry in Daily Life
25	Varsa	Study the effect of acids and bases on the tensile strength of fibers.

## **RUBRICS**

<b>SI No</b>	<b>Rubrics</b>	<b>Max. Marks</b>
1	Relevance to the content	2
2	Neatness	2
3	Independent Work	2
4	Submission on time	2
5	Creativity	2
	<b>TOTAL</b>	<b>10</b>

**Summer Holiday Homework**

**INVESTIGATORY PROJECT (2022-2023)**

**Submission by 5/8/2022**

**Guidelines**

- Do internet research and watch you tube videos on relevant topic.
- Make a report on the TOPIC given and try to integrate it with ART.
- Try to include some pictures related to the TOPIC.
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SI No	Names	TOPICS
1	Abdul Ahad	Amount of casein in different milk
2	Ausaf Ahmed Siddiqui	Conditions for setting of cement
3	Alia Amir	Cream preparation
4	Aaliya Burhan Burhan	Food preservation chemistry-with making of things
5	Aisha Abdullah	Kitchen chemistry with preparation of things-pickles, cake, bread,jam, squash etc
6	Akshara Arun	Rate of evaporation of different liquids and different conditions
7	Angela Maria Dadine	Conditions for setting of cement
8	Angelin Sara Ajay	Hand Sanitizers ,Soaps –As our life
9	Diya Joseph	Amount of casein in different milk
10	Fatima Ahmad	Magic with Chem experiments(few examples)

11	Heshi Viveka	Rate of fermentation of different flours.... temperature ,humidityconditions...
12	Ifra Ayesha	Investigation of the foaming capacity of different washing soaps and the effect of addition of Sodium carbonate on it
13	KADEEJA NOWSHAD	Colloids ,Aerosols-Chemistry in Daily Life
14	Kezia Mathew	Checking the bacterial contamination in drinking water by testingsulphide ion
15	Melista Biju	Study of the methods of purification of water
16	Merlin Helen Christo	Study the effect of acids and bases on the tensile strength of fibers.
17	Merin Thomas	Study the acidity of different samples of tea leaves.
18	Nidha Fathima	Harmful effects of polymers: Polystyrene ,Teflon
19	Rania Saheer	Medicines related to COVID-19 being used worldwide .
20	Ria Sarkar	Study of acidity of fruit and vegetable juices.
21	Sawdha Banu	Rate of fermentation of different flours.... temperature ,humidityconditions...
22	Mahewish Akhtar Faheem Akhtar	Investigation of the foaming capacity of different washing soaps and the effect of addition of Sodium carbonate on it.

## RUBRICS

SI No	Rubrics	Max. Marks
1	Relevance to the content	2
2	Neatness	2
3	Independent Work	2
4	Submission on time	2
5	Creativity	2
	TOTAL	10

**AL AIN JUNIORS SCHOOL**  
**SUMMER VACATION HOLIDAY ASSIGNMENT-JUNE-2022-23**

**Grade 11**

**Subject: Biology**

<b><i>SR.NO</i></b>	<b><i>LIST OF EXPERIMENTS</i></b>
<b><i>1</i></b>	Study of effects of fertilizers on the rate of growth of plants
<b><i>2</i></b>	Study of effect of antibiotics on microorganisms
<b><i>3</i></b>	Study of breaking of dormancy of seeds by KNO <sub>3</sub> , ethylene and shoot elongation
<b><i>4</i></b>	Study of deficiency symptoms of various essential elements and minerals..
<b><i>5</i></b>	Study of effect of light and gravity on plant growth movement
<b><i>6</i></b>	Study of effect of gibberellins on seed germination and shoot elongation
<b><i>7</i></b>	Study of effects of herbicide on lawn seeds
<b><i>8</i></b>	Study of dispersal of seeds by various agencies
<b><i>9</i></b>	Comparative study of chlorophyll content in five different species
<b><i>10</i></b>	. Report on Genetic variations in humans
<b><i>11</i></b>	Study of effect of osmotic stress by administration of hypertonic saline in frog..
<b><i>12</i></b>	Study of locomotion and role of different fins in fishes
<b><i>13</i></b>	Study of zooplanktons from fresh water ponds and tank
<b><i>14</i></b>	Estimation of Vitamin-A content in different types of vegetables and fruits
<b><i>15</i></b>	Harmful effects of mobile radiation in plants and animals
<b><i>16</i></b>	Effect of alkaline and acid in bacterial growth
<b><i>17</i></b>	Factors affecting the growth of bacteria

18	Inventory of weeds in aquatic bodies/agricultural fields
19	Agrochemicals and their effects
20	* Effect of electromagnetic fields on plants
21	Impact of local industry on the environment and the remedial measures taken by the industry
22	Inventory of birds in your locality, their ecological role as scavengers, pollinators, etc
23	Ecological role of some animals observed in a local area
24	To Study and Test the toxicity of the Marine Pollutants by using the Daphnia
25	To Study the Various Effects of the Green House Effect on the Environment
26	Effect of music of various types and duration on plants
27	Report on Genetic variations in humans
28	* Factors affecting nodule formation in legumes
29	To Study the effects of the Fertilisers on the Rate of Elongation of the Hypocotyl
30	Experiments with hydroponics
31	* Tissue culture
32	Covid -19 effects
33	Drug and alcohol abuse
34	* Effect of fertilizers ,manures and poythene on the rate of elongation of hypcotyls

## **RECORD WORK**

### **A: List of Experiments (MAJOR EXPERIMENTS)**

1. Study and describe locally available common flowering plants, from family Solanaceae (Poaceae, Asteraceae or Brassicaceae can besubstituted in case of particular geographical location) including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams), type of root (tap and

adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound).

2. Study of osmosis by potato osmometer. .

3. Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials.

4. Separation of plant pigments through paper chromatography.

### **B- MINOR EXPERIMENTS**

1 Comparative study of the rates of transpiration in the upper and lower surfaces of leaves.

2 Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.

3. Test for presence of urea in urine.

4 Test for presence of sugar in urine.

5. Test for presence of albumin in urine.

6 Test for presence of bile salts in urine

## SUMMER ASSIGNMENT – 2022-23

### ISLAMIC STUDIES

(Boys): Prepare a booklet on “Biography of Zaid bin Harithah (RA) and Salman Al-Farsi (RA)” including inspiring aspect of their lives.

(Girls): Prepare a booklet on “Any one of Prophet’s wives (SAW)” including inspiring aspect of her life.

## Grade -11-MATHS

Date of submission: 5/9/22

**1. Choose any one of the activities from the given ncert lab manual .**

<https://ncert.nic.in/pdf/publication/sciencelaboratorymanuals/classXI/mathematics/kelm401.pdf>

**Prepare a neat model ,with objective, materials required ,methods of construction,demonstration observation and application.**

- a) **Activity 1-** To find the number of subsets of a given set and verify that if a set has  $n$  number of elements, then the total number of subsets is  $2^n$
- b) **Activity 3 -**To represent set theoretic operations using Venn diagrams
- c) **Activity 4-** To verify distributive law for three given non-empty sets A, B and C, that is,  
$$A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$$
- d) **Activity 8-**To find the values of sine and cosine functions in second, third and fourth quadrants using their given values in first quadrant
- e) **Activity 9-**To prepare a model to illustrate the values of sine function and cosine function for different angles which are multiples of  $\pi/2$  and  $\pi$
- f) **Activity 10-**To plot the graphs of  $\sin x$ ,  $\sin 2x$ ,  $2\sin x$  and  $\sin 2x$  , using same coordinate axes.

**2. a. To solve any five questions from each lesson (miscellaneous exercises) of the concluded chapters.**

**b. To solve three questions of each chapter from any reference book like R.D.Sharma/  
Exam idea/ ML Aggarwal or any other book.**



**AL AIN JUNIORS SCHOOL**  
**HOLIDAY ASSIGNMENT- 2022-23**

**COMPUTER SCIENCE**

**Grade 11**

**Topic- Role of Python Programming Language in the field of Artificial Intelligence**

Student should prepare an assignment on the above topic.

- 5) History of Python Programming Language
- 6) Advantages of Python Language
- 7) Uses of Python in different areas
- 8) Brief description about the use of Python in Artificial Intelligence

The Assignment should contain:

Cover page,  
Topic,  
Index,  
Data collected,  
Conclusion and  
Bibliography

- Photos/ paper cuttings are all pasted on the left side of the paper.
- Project work should be handwritten.
- The Project File, marks are awarded based on: Content, Coverage, Presentation, Interpretation and Conclusion, Originality and Quality of work.

### Grade :11

Spelling bee will be conducted after summer holiday during Arabic language month in the following words)

رسالة المدح والتهنئة	
English	Arabic
Letter	رسالة
Invitation	دعوة

Acceptance	قبول
Refusal	رفض
The greeting	التحية
Signature	التوقيع
formal letter	رسالة رسمية
personal message	رسالة شخصية
Thanks	شكرا
Blessing	مبارك
Appreciation	تقدير

gratitude	امتنان
a fan	معجب
Express	أعبر
Good reputation	سمعة طيبة
pride	الفخر
interested	مهتم
respect	أحترم
Special	مميز
I hope	أتمنى
deserve	تستحق
success	نجاح
example	قدوة
I miss you	اشتقت إليك
I miss you so much	أفتقدك كثيرًا
I wait for you to come back safely	أنتظر عودتك بالسلامة
see you soon	أراك قريبًا

take off	إقلاع
landing	هبوط

### الروتين اليومي

English	Arabic
daily routine	الروتين اليومي
wake up	الاستيقاظ
breakfast	الفطور
arranging clothes	ترتيب الملابس
Dental Care	العناية بالأسنان
the job	العمل
go to work	الذهاب للعمل
The school	المدرسة
Homeworks	الواجبات المدرسية
break	استراحة
lunch hour	ساعة غداء
reading	القراءة

### في المطار

English	Arabic
Airport	مطار
Hotel	فندق
Traveler	مسافر
Luggage	أمتعة
Reception	استقبال
passport	جواز سفر
seat	مقعد
Boarding pass	بطاقة صعود
Beside	بجانب
Gate	بوابة
flight	رحلة جوية
Arrival	وصول
terminal Building	مبنى الركاب
ticket	تذكرة
Boarding gate	بوابة الصعود للطائرة
departure	مغادرة
elevator	مصعد

### في الفندق (In the hotel)

English	Arabic
book	يحجز
reservation	حجز
Overlooks	يطل
What is the hotel name?	ما اسم الفندق؟
When is the reservation?	متى الحجز؟
I imagine that I am in the hotel	أتخيل أني في الفندق
If you please	لو سمحت
Do you like sleeping in the hotel? Why?	هل تحب النوم في الفندق؟ لماذا؟
hotel room	غرفة الفندق
security guard	حارس أمن
Hotel stay	إقامة في الفندق
hotel servant	خادم الفندق
room available	غرفة متوفرة
guest	نزيل

### وسائل التواصل الاجتماعي

English	Arabic
Society	المجتمع
Be held	تُعقد
consult	تُشاوَر
Humans	البشر
obsessed	مهووس
Adequate	وافية
Waste	إهدار
Noticeable	ملحوظ
Contributed	ساهم
Write down	يدوّن
Social media	وسائل التواصل
Chat	دردشة
comment	تعليق
Instagram	السنغرام
LinkedIn	لينكد إن
Facebook	فيسبوك

كتب أسامة رسالة إلكترونية إلى صديقه بدر يخبره فيها عن مزرعته الجديدة.  
اقرأ الرسالة بعناية ثم أجب بوضع إشارة (✓) في المربع المناسب.

To: Bader@arabic.com

Subject: المزرعة الجديدة

كيف حالك يا بدر؟ أنا بخير وفرح لأنّ والدي اشترى لنا مزرعة جديدة خارج المدينة وتبعد عن بيتنا حوالي ساعة بالسيارة. المزرعة جميلة وكبيرة. هناك بيت صغير للإستراحة فيه ثلاث غرف نوم وحمام، وهناك مطبخ حديث مفتوح على غرفة الجلوس والتي تشاهد منها المزرعة الواسعة.

في الجانب الأيسر لهذه المزرعة هناك أزهار مختلفة الألوان، وشجر فاكهة كالموز والليمون والنفاح وأيضاً توجد فراولة. في منتصف المزرعة هناك بحيرة جميلة فيها الكثير من الأسماك. يوجد مسبح على يمين الباب الرئيسي للمزرعة. أريدك أن تزورني قريباً لنلعب ونقضي وقتاً ممتعاً في مزرعتي.

مع تحياتي،

أسامة

اشترى والذي مزرعة في ...

مركز المدينة.	<input type="checkbox"/>	A
خارج المدينة.	<input type="checkbox"/>	B
داخل المدينة.	<input type="checkbox"/>	C

تُشاهد من غرفة المعيشة ...

البحر.	<input type="checkbox"/>	A
الجبل.	<input type="checkbox"/>	B
المزرعة.	<input type="checkbox"/>	C

في الحديقة شجر ...

تفاح وليمون.	<input type="checkbox"/>	A
تفاح وبرتقال.	<input type="checkbox"/>	B
تفاح وإجاص.	<input type="checkbox"/>	C

تقع البحيرة في ...

جنوب المزرعة.	<input type="checkbox"/>	A
وسط المزرعة.	<input type="checkbox"/>	B
شرق المزرعة.	<input type="checkbox"/>	C

يقع المسبح على يمين ...

البحيرة.	<input type="checkbox"/>	A
شجر الزيتون.	<input type="checkbox"/>	B
مدخل المزرعة.	<input type="checkbox"/>	C

أقرأ النص التالي بعناية ثم أجب عن الأسئلة التي تليها باللغة العربية.

### رحلة الصحراء

اسمي صوفي وأنا سائحة فرنسية. أحببتُ فعل شيء جديد أثناء زيارتي لدبي فذهبت في رحلة إلى الصحراء. قبل الرحلة عرض علينا مكتب السياحة معلومات عن الصحراء تعلّمنا منها الكثير. قال مدير المكتب إن الصحراء مكان جافّ وقليل الأمطار وحار جداً. يتغير الطقس فيها بدرجة كبيرة، حيث أن اختلاف الحرارة الهائل بين الصباح والمساء ينتج عنه رمال الصحراء. وقال إن النباتات والحيوانات التي تعيش في الصحراء لها صفات خاصة لهذا الجو. فنجد الحيوانات تحافظ على برودتها بإيجاد الماء الكافي لتخزينه في جسمها، أما النباتات فتكون عادةً جافةً وليس فيها أوراق وتحتاج إلى كمية قليلة جداً من الماء.

أجاب المدير على سؤال حول وجود المياه في الصحراء فقال "على الرغم من قلة الأمطار، توجد مياه داخل الأرض في بعض الأماكن كالبحيرات الصغيرة التي تساعد سكان الصحراء في تنقلهم لأنها تقدم لهم وحيواناتهم وسيلة حياة أفضل. وهذا لأن السكان يستخدمون الماء للشرب والزراعة أحياناً."

ودُهشنا فعلاً بقوله إن الصحراء لها ألواناً مختلفة وذلك حسب لون الرمل وصفاته التي تسبب هذه الألوان. وشرح أن غناها بالشمس جعلها في بعض البلاد عاملاً مهماً للإستفادة من حرارة الشمس القوية عن طريق الألواح الشمسية.

في النهاية ذكر المدير أن الصحراء تغطي ثلث الكرة الأرضية، وأشهرها "الصحراء الكبرى" في أفريقيا، والصحراء العربية ذات التلال الرملية و"الربع الخالي" المشهور في السعودية. كنت أتطلع بفرح لهذه التجربة الخاصة.



من علم صوفي عن الصحراء في بداية الرحلة؟

.....

كيف تتشج الرمال في الصحراء؟

.....

اذكر صفة لحيوانات الصحراء.

.....

ما شكل نبات الصحراء؟

.....

من أين يحصل سكان الصحراء على الماء؟ اذكر نقطتين.

..... (i)

..... (ii)

لماذا هناك ألوان مختلفة في الصحراء؟

.....

كيف يمكن تخزين حرارة الشمس في الصحراء؟

.....

ما اسم الصحراء في السعودية؟

.....