Karnal Sher Khan Cadet College Swabi

**INSTRUCTIONS FOR PARENTS / GUARDIANS / STUDENTS (for CLASS 9th)**

Dear Parents / Guardians / Students

1. A Comprehensive Summer Vacations tasks is provided to the Cadets for utilizing available time during summer vacations. 2nd Term / Post Summer Vacations Exams of class 8th & 9th shall be conducted from the Summer Vacations tasks & from the lectures given on Website, Portal & WhatsApp group. Additionally, **online tests have also been planned for the months of Jul and Aug,** with schedule reflected on College Website, to monitor progress.
2. **Objectives of Summer Vacations**. Following objectives need to be met for entire efforts: -
   1. Continuity of studies, at a slower pace to retain current with academics and avoid undue time wastage.
   2. Identify and address shortfalls observed so far, which otherwise are difficult to manage during active college routine.
   3. Explore other areas of Education for a comprehensive learning process.
   4. Improve upon reading and writing skills for enhanced personality attributes and effective examination management.
3. All academic subjects have been included in the Summer Vacations Tasks with additional assignment of a Book Review, English Communication Skills, Completion of Practical Note Books (theory and diagrams only) and a few other tasks concerning upcoming college events and completions.
4. Quiz cum Assembly Line educations has been introduced to improve attitude for learning. Details being shared separately.
5. Cooperation from parents shall be highly appreciated. Looking forward for meaningful and mutually rewarding interaction, Inshallah.

Director of Studies

(Mian Zahid Ur Rehman)

(Karnal Sher Khan Cadet College Swabi)

**Class IX**

**Summer Vacations Task by Shakir Ullah**

**English**

**Note:** Attempt all the given categories of the Summer Task on assignment pages with proper covers and binding. **(Mandatory)**

1. **Textbook**
2. Revise and read carefully the **First Three** units of the book and attempt the exercise questions.
3. Identify and write the key points of the above lessons as MCQs. (10 MCQs each)
4. Make a list of figures of speech used in the poem and write its paraphrase.
5. **Write the following applications.**
6. Application to the Principal to recommend some suggestions for improving the College facilities and services further.
7. Application to the Principal requesting a meeting to discuss and suggest some contributive initiatives for academic progress.
8. Application to the Principal requesting for a character certificate or fee concession or emergency leave.
9. Application for a study tour.
10. **Write the following letters.**
11. A Letter to parents sharing news and updates of study progress and the various activities held in the College.
12. A letter to a friend congratulating him on his success and securing position in exam.
13. A Letter to your ailing mother asking her well-being and wishing her get well soon.
14. A Letter to the editor of a newspaper highlighting the importance of following the traffic rules.
15. **Develop a story for each of the following morals.**

**a.** Honesty is the best policy **b.** Pride hath a fall

**c.** Greed is a curse **d.** When there is a will, there is a way.

1. **Debate Topics:** Research and write arguments in the form of an essay **for** or **against** the following topics, then engage in a debate with a friend or a family member to prepare for the competition held at the college after summer vacations.
2. Social media is a platform of freedom of speech, or a tool of spreading misinformation among masses.
3. Knowledge-based economy verses defense-based economy
4. The will should be stronger than the skill
5. **Book Review:** Write a review of the book of your choice follow the following format/guidelines for writing the book review.
6. Introduce the book that provides a brief overview i.e. title, author, publisher, publication date and genre of the book and your overall impression.
7. In the body paragraphs, delve into the key aspects of the book, such as plot, characters, favorite parts, writing style, themes, and any other significant strength or weakness.
8. Support your opinions and observations with specific examples or quotes from the book to support your points
9. Maintain an objective tone throughout your review, providing both positive and constructive feedback.
10. Write simple and use clear and coherent paragraphs to organize your thoughts effectively
11. In conclusion, summarize your main points and provide some recommendation of the book for the readers.
12. **Grammar**
13. Learn at least two new words every day and use them in meaningful sentences.
14. Write at least 50 sentences using different prepositions.
15. Revise the tenses and write 5 examples for each category, i.e. indefinite, continuous, perfect and perfect continuous.
16. **Language Task**
17. Write a journal that reflects on your experiences during the summer vacations.
18. Watch any of the following movies and write its story in your own words.

I. Divergent II. The Fault in Our Stars III. The Blind Side IV. Miracle V. To Kill A Mocking Bird VI. The Hunger Games VII. Remember the Titans

1. Read an article daily of any standard newspaper (e.g. DAWN, THE NEWS etc.) and write summary of any five articles of your choice you have read.
2. Write an article/poetry for college magazine.

Mr. Shakir Ullah, Lecturer in English 0313-5383340

**UDRU**

1۔ پہلے دس (10)اسباق اور چار نظموں (4) کے مرکزی خیال خوش خط لکھنااور یاد کرنا۔

2۔ پڑھے گئے تمام اسباق کی مشقوں میں موجود گرائمر خوش خط لکھنا اور یاد کرنا۔

3۔ خوش خطی کے لیے روزانہ ایک لفظ کی مشق کریں (پچاس صفحات۔کلاس میں دی گئی ہدایات کے مطابق)۔

4۔ دو مکالمے لکھنا: 1۔ دو دوستوں کے درمیان نقل کی روک تھام 2۔ محنت کی عظمت ۔ذمہ دار شہری کی خصوصیات کے موضوع پر مکالمے لکھنا۔جن میں ہر کردار کے کم از کم پندرہ ،پندرہ مکالمے (ڈائیلاگ )ہوں۔

5۔ درخواستیں لکھنا:

1۔ چیئرمین بلدیہ کو محلے کی صفائی کے لیے درخواست لکھیں۔ 2۔ پرنسپل کے نام فیس معافی/جرمانہ معافی کی درخواست لکھیں۔

6۔ درج ذیل موضوعات پر خطوط لکھنا۔

1۔ چھوٹے بھائی کو بری صحبت سے بچنےکی تلقین کا خط لکھنا 2۔ دوست کو کیڈٹ کالج کی روزمرہ زندگی سے متعلق خط لکھنا

7۔ تفہیم کے لیے کم از کم 3 پیراگراف لکھ کر اُن میں آٹھ آٹھ سوالات بنا کر جوابات لکھیں۔

8۔ کسی ایک کتاب ( ناول، افسانوی مجموعہ، طنزومزاح، تنقیدی کتاب، سفر نامہ، آپ بیتی وغیرہ)کا مطالعہ کر کے اپنا تجزیہ تحریر کریں جو کم ازکم 200 سے 250 الفاظ پر مشتمل ہو۔

9۔ شیرئین میگزین کے لیے کم از کم ایک تخلیقی تحریر لکھیں(افسانہ، شاعری، مضمون، سفر نامہ، آپ بیتی، روداد، حکایات، مزاح وغیرہ)۔

9۔ Inter House Urdu Declamation کے لیے "۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔" کے موضوع پر چار سے پانچ منٹ کی تقریر لکھ کر لائیں۔

**Mr. Saifullah Farooqi (Lecturer Urdu) 03134129241**

**Mr. M. Asghar Javed (Lecturer Urdu) 03009321055**

**Subject: Pakistan Studies.**

**A) Written Work (Copy the following questions into your Neat Note Book)**

**Note: Below Questions are from chapters, (03)**

Q-1. Define geostrategical location and importance of Pakistan.

Q-2. Elaborate the physical features of Pakistan

Q-3. Explain the climatic zones of Pakistan

Q-4. Describe the natural regions and wild life in Pakistan.

Q-5. What are the important glaciers of Pakistan?

Q-6. Discuss the environmental problems of Pakistan.

Q-7. Explain pollution and its kinds.

Q-8. Write down a summary in your own words of this chapter that what you have learnt from it.

**B) Map Orientation.**

i) Draw a map of Pakistan and highlight rivers, barrages and dams of Pakistan.

ii) Draw OR download a map of KP, encircling mineral resources of the province.

ii) How plantation can play role to reduce threats of global warming.

**C) Current Affairs/General Awareness**

i. Describe the root cause of the Israel and Hamas Conflict

ii. Analyze the Pak India ties after general elections in India

iii. China Taiwan conflict in World perspective

**D) Assignment:**

i) Give a detail account of climatic change and its impacts on Pakistan.

ii)How natural resources are important for economic growth.

1. Note. The above questions also to be memorized for onward test and exam. <https://youtube.com/@thevirtualuniversityofpakistan?feature=shared>
2. <https://youtube.com/@studyforum1545?feature=shared>
3. <https://youtube.com/@masoodcui?feature=shared>
4. Geostrategic Pakistan
5. Longitude

Contact- Riaz Anwar (0342-8549976-0313-9218456)

M.Ijaz (0345-9209043)

**M.Q & Islamyat:**

|  |  |  |
| --- | --- | --- |
| **M.Q** | **Isl** | **Remarks** |
| 1 .Last three stories  2 .Surah Room  3 .Surah Luqman  4 .Surah Al Sajdah  5. Surah Fatir  (Main theme and exercise)  **(For memorizing)** | 1 Ghazwa e Badr  2 . Exercise of surah al Anfal no 1,2,3,4 and 5  **(For memorizing)**  3 .Last five Ahadith(difficult words meanings and translation)  4 . Last two mauzuaty mtalia  **(For written and memorizing)** |  |

Class XI-Mathematics (2024)

**Task 01:** Watch video lectures from the given link and attempt only Exercise # 1.1, 1.2, 2.1 and 2.2 of ***“Chapter # 01 Complex Numbers”*** and ***“Chapter # 02 Matrices and Determinants”*** Prepare a note book consist of Mathematical notations, Formula derivations, Examples and Exercises. The videos are available on YouTube channel, detail is as under:

**YouTube Channel/ Link:** “Concept Mathematics with Sartaj”.

Link of YouTube channel: <https://www.youtube.com/channel/UCd8vgBvIiZqNL7cCq6PGe0Q>

* Maths-XI Videos Lectures of Chapter#01 'Complex Numbers’

This chapter is consist of 16 video lectures. All these videos are uploaded on YouTube channel “Concept Mathematics with Sartaj”.

* Maths-XI Videos Lectures of Chapter#02 'Matrices and Determinants’
* This chapter is consist of 29 video lectures. All these videos are uploaded on YouTube channel “Concept Mathematics with Sartaj”.

**Task 02:** Watch video lectures from the given link for chapter 05 and chapter 09. Prepare a note book consist of Mathematical notations, Formula derivations, Examples and Exercises. The videos are available on YouTube channel, detail is as under:

**YouTube Channel/ Link:** “Concept Mathematics with Sartaj”.

Link of YouTube channel: <https://www.youtube.com/channel/UCd8vgBvIiZqNL7cCq6PGe0Q>

* Maths-XI Videos Lectures of Chapter#05 'Miscellanies Series’
* This chapter is consist of 05 video lectures. All these videos are uploaded on YouTube channel “Concept Mathematics with Sartaj”.
* Maths-XI Videos Lectures of Chapter#08 'Functions and Graphs’
* This chapter is consist of 22 video lectures. All these videos are uploaded on YouTube channel “Concept Mathematics with Sartaj”.

**Note**: On arrival to college, exam will be conducted within 10 days in the above-mentioned course.

**Home Assignment**:

* Watch the videos and make lecture notes in a copy. Solve examples and exercises related to the topics covered in video lectures. The preparation of lecture notes in a separate copy weightage 25% marks in the exam conducted on arrival within 10 days.

If you face any difficulty while studying the topics from YouTube Channel. Feel free to contact on WhatsApp (+92-313-9053536 & +92-345-3299070)

**Summer Vacation Task – Computer Science**

1. **Reading/Understanding**. Kindly study and understand the following topics from the KP textbook or any other book you have as these are the topics already discussed and studied in previous classes.

|  |  |  |
| --- | --- | --- |
| **S No** | **Chapters** | **Topics** |
| **1** | **Chapter No.3**  (Data Communication | 1. What is Data Communication 2. Components of Data Communication 3. What is Transmission Media 4. Guided Transmission media  * Twisted Pair Cable * Coaxial Cable * Fiber Optic Cable  1. Un - Guided Transmission media  * Radio Waves -Microwave * Satellite communication -Infrared waves  1. Transmission Impairment 2. Communication devices |
| **2** | **Chapter No. 4**  **(Computer Networks)** | 1. What is Computer Network ? 2. Uses of Computer Network 3. Network Architecture 4. Types of Computer Network according to Geographical Area.  * LAN - MAN -WAN |
|  | **Chapter No. 6**  **(Computer Security)** | 1. Computer Security 2. Importance of Computer Security 3. Hackers and Crackers 4. Computer Virus 5. Types of Computer Virus 6. How viruses spread ? 7. Symptoms of Virus attacks 8. Safeguards against Virus |

1. **Written work**
2. Prepare 30 MCQs in the topics of each chapter other than exercise.
3. Prepare notes of the above mentioned topics in writing (in a separate notebook) and bring it along with after summer vacations.
4. Complete your practical notebook (Neat Diagrams and write steps of each Practical).
5. Solve 2 x Computer papers (2022 and 2023)of Mardan or any other KP Board in your neat notebook.
6. Post summer Exam will be conducted in the above topics.
7. **Presentation**. Prepare a presentation on the Topic **“ What is Computer**

**Virus? How Viruses Spread? Types of Virus and safeguard against Virus ”.** Bring the Presentation in USB or email to jawad.cs83@gmail.com.

**Note: In case of any query please contact on 03369908747 through WhatsApp . Mr. Jawad Ali Khan , Assistant Professor, KSKCCS.**

**Biology -Class 9th**

**Note**: All the students of Class 9th are required to complete following tasks/home work during summer vacations. These tasks (homework) carry 25% marks of the exam that will be conducted after summer vacations. The exam will consist of course taught in college and homework assigned for summer vacations. So properly prepare homework and study the topics taught in the college.

Parents are required to sign each task after completion, otherwise will not be accepted.

**Tasks/Homework details:**

1. Student are required to solve Biology board papers of past two years.
2. Students are required to thoroughly study four chapters (Chapter 1-4) of Biology textbook for class 9th and draw all the diagrams in note books. After summer vacations the exam will be conducted in all the four chapters (Chapter 1-4).
3. The exercises at the end of each chapter (Chapter 1-4) are required to be solved in note books.
4. Students are required to prepare fifteen MCQs in each chapter (Chapter 1-4) and categorize them as conceptual, knowledge-based and application-based.
5. Students are required to complete their practical note books.

**Creative Work:**

1. Chapter wise (Chapter 1-4) reckoners/flow charts are required to be prepared.
2. Students are required to study (watch) the video lectures of Chapter 1-4 available on <http://www.youtube.com>, http://www.khanacademy.org and YouTube channel (Ateeq Ahmad, Biology, KSKCCS). Search at least 3 videos on each chapter.
3. **Prepare a model/project from the following or prepare model/project on any biological topic/idea of your interest:**

a. Bacteriophage Virus b. Corona Virus c. Green House from Plastic Bottles/Glass d. Prokaryotic and Eukaryotic Cell e. Bacterial Cell

**Contact No.**

Mr. Ateeq Ahmad

0308-3321411

**Physics class 9th**

Kindly do read and understand the following topics from the KP textbook or any other book you have, as these are the topics already been discussed and studied in the previous classes and will be included in Post summer vacations task along with all covered chapters as(1,2,3,4,5).

|  |  |  |
| --- | --- | --- |
| **S No** | **Chapters** | **Topics** |
| **1** | **Ch. No 6**  **(work and energy)** | Energy and its types  Major Sources |
| **2** | **Ch. No 7**  **( Properties of Matter)** | Pressure & Density  Atmospheric pressure  Pascal's principle  Liquid pressure  Archimedes principle |
| **3** | **Chapter No 8**  **( Thermal Properties Of Matter)** | Temperature & its scales.  Conversion of one scale reading into other scale.  Measurement of temperature |
| **4** | **PPT-Presentation** | **Greenhouse effect and global warming** |

**IMPORTANT INSTRUCTIONS:**

* Write and memorize all the formula, different tables and diagrams/figures included in chapters 2, 3, 4,5,6,7 & 8 on the charts.
* Complete practical note books without observations and calculation.
* Solve last five years board papers, questions of the covered chapter’s in syllabus only.
* Syllabus for post summer task is, all above topics and related Mcqs.
* Solve and learn all the numerical problems of covered chapters.
* Highlight the MCQs in book in all the covered chapters’ topics.
* Lecture videos and animated videos in USB are available for guidance of above mentioned topics.
* **Creative Work. Make a working model of water rocket**.
* **Note: In case of any misunderstanding kindly contact 03339712263**

**Mr. Faheem Ullah Lecturer, Physics KSKCCS.**

**Chemistry: WAQAR SAEED CELL NO 0343-9226586**

1. **Self-study topics**
2. Prepare notes and thoroughly study the following topics from text book and video lectures.

**Chapter 4 Structure of Molecule**

Introduction , Duplet and octet rule

Ionic bond , Covalent bond Dative bond Polar and non-polar bond Metallic bond Shapes of molecules Dipole Dipole interaction Hydrogen bonding Application & properties of hydrogen bonding Properties of ionic compounds Properties of covalent compounds Properties of metallic compounds Liquid state: typical properties of liquid Solid state: typical properties of solid Types of solids, Allotropy

Prepare schematic diagram of following topics

A Boiling Point; B Ionic Bond

C Electron Sea Model D Shapes of molecules

1. **Written Work**
2. Solve Exercises of
   1. Chapter 4: Structure of Molecules
   2. Chapter 05 State of Matter
   3. Solve Activates & Practice problems of
   4. Chapter 4: Structure of Molecules
   5. Chapter 05 State of Matter

**Write down the following practical in practical notebook, also draw the diagram and leave observation tables blank**.

A Expr : Separate the given mixture of naphthalene and sand

B Expr : Determine melting point of Naphthalene & Biphenyl

C Expr: Determine the boiling point of acetone and benzene

D Expr: Separate given mixture by distillation

E Expr: Separate given mixture by Sand and Salt

F Expr: Determine the Boiling point of given sample o liquids

1. **Creative Work**
2. Search for a project related to Chemistry and write down its complete procedure with required items.
3. Write down at least 30 MCQs from chapter 4, 5 The MCQs should be different from exercises.
4. Search and solve the questions of Chapter# 4, 5 included in past board papers