

Uswa College Islamabad

Summer Vacation Task

Class:9th

Subject: Mathematics

Teacher: Mr. Ali Kamran Akhtar, Cell # 03335320978

Chapter # 01 (Real Numbers)

- Ex. 1.1 Q.No. 1 (i, ii, v, vi), Q.No.2, Q.No. 3 , Q.No.4
- Ex. 1.2 Q.No. 1 (i, iv), Q.No.2 (ii,vi), Q.No.3 (i, v) Q.No.4 (i, iv, v), Q.No.5
- Ex. 1.3 Q. No. 2, Q.No.5 (iii, iv), Q.No. 7, Q. No. 8, Q.No.9
- Review Ex1 Q.No. 4

Chapter # 02 (Logarithms)

- Ex. 2.1 Q.No.3 (i,ii, iii, iv), Q.No.5
- Ex. 2.2 Q.No.2 (i, ii, iv, v, vii, viii), Q.No. 3(i, ii, iii, iv, v, vi)
- Ex. 2.3 Q.No. 1, Q.No. 3, Q.No.6, Q.No.9, Q.No.10, Q.No.14, Q.No. 15
- Ex. 2.4 Q.No.1, Q.No.3, Q.No.4, Q.No.7, Q.No.10, Q.No.11, Q.No.15
- Ex.2.5 Q.No.1 (iii, v, vii), Q.No.2 (iii,iv, v), Q.No.3 (ii, iv), Q.No.4 (iii, v)
- Ex. 2.6 Q.No. (ii, v, vi), Q.No.2 (iii, iv, v, vi,vii), Q.No.4 (i, ii)
- Review Ex2 Q.No.4 (ii, iii), Q.No.5 (i, iii, iv), Q.No.6 (ii, iii), Q.No.7, Q.No.8

Chapter # 04 (Factorization and Algebraic Manipulation)

- Ex. 4.1 Q.No.1, 3, 4, 6, 8, 10, 12, 13, 15, 17, 19, 20, 22, 24, 28, 29
- Ex. 4.2 Q.No.2, 3, 6, 7, 9, 11, 13, 15, 16, 19, 20
- Ex. 4.3 Q.No. 2, 4, 6, 7, 8, 9
- Ex. 4.4 Q.No. 3, 5, 6, 7, 8, 10, 12, 13, 14, 15
- Ex. 4.5 Q.No. 2, 3, 4, 5, 6
- Ex. 4.6 Q.No. 3, 4, 6, 7, 8, 9, 10, 11, 12, 13
- Ex. 4.7 Complete Exercise
- Ex. 4.8 Complete Exercise

Teacher: Mr. Shahbaz Husain, Cell # 03346761412

Summer Vacation Homework (Class 9 Computer Science)

<p>Part 1: Entrepreneurship Project (Main Task)</p> <p>“Start Your Own Mini Business Idea”</p> <p>Students will:</p> <ul style="list-style-type: none">• Think of a small business idea (online or physical)• Prepare a short project file including:<ol style="list-style-type: none">1. Business Name & Logo (handmade or digital)2. Product/Service Description3. Target Customers4. Estimated Cost & Profit5. Marketing Plan (how they will promote it – social media, posters, etc.) <p><i>Goal:</i> Develop creativity + real-world thinking</p> <p>Part 2: Artificial Intelligence Activity</p> <p>“AI Around Me” Observation Task</p> <p>Students will:</p> <ul style="list-style-type: none">• Identify at least 5 real-life examples of AI (e.g., YouTube recommendations, Google Maps, Face Unlock, Chatbots)• For each example, write:<ul style="list-style-type: none">○ What is the AI system?○ How it helps people○ One advantage & one disadvantage	<p>Part 3: Basic Digital Skills Task</p> <p>(Very important for IT exposure)</p> <p>Students must do any ONE:</p> <ul style="list-style-type: none">• Create a presentation (5–7 slides) on:<ul style="list-style-type: none">○ “Future of AI” OR○ “My Dream Business” <p>Part 4: Short Questions Practice</p> <p>Write answers (in notebook):</p> <ol style="list-style-type: none">1. What is entrepreneurship?2. Write 3 qualities of a successful entrepreneur.3. What is Artificial Intelligence?4. Write 3 applications of AI.5. Difference between Human Intelligence and AI. <p>Part 5: Creative Task (Fun Activity)</p> <ul style="list-style-type: none">• Design a poster on:<ul style="list-style-type: none">○ “AI in Future” OR○ “Become a Young Entrepreneur” <p>Submission Instructions</p> <ul style="list-style-type: none">• Submit in a proper file/folder• Include:<ul style="list-style-type: none">○ Cover page (Name, Class, Section)○ Neat handwriting / proper formatting
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English 9th – Teacher: Dr. Mohsin Raza Hashmi – Cell # 03335958114

1. Write all the exercises from Review–1 on a separate sheet.
2. Write a diary about your weekly activities during the summer vacation.
(Total Weeks: 10)

3. Write a paragraph of 100 words on each of the following topics:

- A. How to Prepare a Fair Notebook
- B. Advantages of the Internet
- C. An Unforgettable Moment of My Life
- D. Importance of a Teacher in Society

Note:

Complete all the work neatly and in good handwriting. Keep your work clean, organized, and properly decorated.

English Language Summer Vacation Task – Mr. Abid Ali, 0344-5453195

Watch any “TedTalk” video of your own interest.

- a) **Write a summary of the video.**
- b) **Do you agree or disagree with the speaker? Why?**

Chemistry – Teacher: Abdul Ahad, Cell # 03106080794

Dear Students,

During the summer vacation, you are expected to revise the chapters taught in class and complete the following written and activity-based tasks carefully. The purpose of this work is to strengthen your concepts, improve presentation skills, and develop interest in Chemistry through observation and simple activities.

1. Instructions:

- Use proper headings and margins.
- Write answers in complete sentences.
- Learn all questions for revision.

2. Definitions

- Prepare a separate section for important definitions.
- Write the definitions of the following terms with one daily-life example each:
Matter, Solution, Solute, Solvent, Solubility, Suspension, Colloid, Atom, Orbit, Shell, Technology, Engineering

3. Conceptual Questions

Answer the following questions in 3–5 lines:

- Why are gases compressible?

- Why do colloids scatter light?
- What is the difference between a solution and a suspension?
- Why was Rutherford's atomic model not completely successful?
- Why was Bohr's model accepted over previous models?
- Why is Chemistry important in daily life?
- Why do particles move faster in gases than in solids?
- Why does a suspension settle down after some time?

Part 2 – Activity-Based Work

Activity 1 – States of Matter Observation

Observe 10 materials at home and classify them as:

Solid, Liquid, Gas

Prepare a table in the following format:

Water	Liquid	Takes shape of container

Activity 2 – Solution, Colloid, and Suspension

Prepare the following mixtures at home:

Salt + Water	Solution
Milk	Colloid
Mud + Water	Suspension

Observe: Transparency, Settling of particles, Filtration

Write your observations and conclusions.

Activity 3 – Atomic Models Drawing

- Draw and label one of the following atomic models neatly on chart:
 - Dalton's Atomic Model
 - Rutherford's Atomic Model
 - Bohr's Atomic Model

For each model, write: One advantage, One limitation,
Use colors for better presentation.

Part 3 – Creative Work

Chemistry in Daily Life

Write a 2-page assignment on:

“Importance of Chemistry in Daily Life”

You may include : Use of chemistry in food, Medicines, Agriculture, Industry,
Technology, Household products

You may also add pictures or diagrams.

Part 4: Make a Chart about any Chemist(Jabir Bin Hayyan, Dalton, Rutherford, Bohr) and show their work in the form of points, pictures etc.

Instructions

- Submit all work in a neat notebook or file.
- Handwriting and presentation will be checked.
- Label all activities clearly.
- Complete work independently.
- Revise all chapters regularly during vacations.

Best Wishes for a Productive Summer Vacation!

اردو – ظہیر عباس – 03485069820

- 1 کم از کم تین افسانے پڑھیں۔
- 2 پانچ افسانوں کا فکری جائزہ لکھیں۔
- 3 پانچ افسانوں کا فنی تجزیہ کریں۔
- 4 اپنی مادری زبان کا آغاز، ارتقاء، تاریخ، اہم ادباء و شعراء پر تفصیلی مضمون لکھیں۔
- 5 اپنی مادری زبان کے کسی ایک شاعر اور ایک نثر نگار کا تعارف، اہم تصانیف اور کوئی فن پارہ لکھ کر لائیں۔

اسلامیات - محمد شبیر رجائی - 03212707230

باب اول: تمام احادیث کا ترجمہ لکھ کر لائیں اور یاد کریں۔

باب دوم: تمام مشقی سوالات کے ایم سی کیوز اور مختصر سوالات کے جواب لکھ کر لائیں۔

نبی کریم صلی اللہ علیہ وآلہ وسلم کی رسالت کی خصوصیات بالخصوص عقیدہ ختم نبوت پر تحقیقی نوٹ لکھ کر لائیں۔

ترجمہ قرآن: سورہ مریم، سورہ طہ اور سورۃ الانبیاء کا تعارف اور مضامین لکھ کر لائیں۔

نوٹ: تمام کام ورک شیٹ پر کریں۔ ہوم ورک مکمل نہ کرنے والے طلباء کے امتحان میں 10 نمبر کم دیئے جائیں گے۔

Biology – Teacher: Mr. Ismatullah Khan Niazi, Cell # 03335169660

- Make labelled diagram of all structures of first three chapters of the textbook
- Write note on the following: (i) Cell wall (ii) Cell membrane (iii) Mitochondria (iv) Golgi bodies (v) Centriole (vi) Plastids (vii) Lysosome (viii) Nucleus
- Describe various types of Carbohydrates.
- Draw and describe Watson Crick Model of DNA.
- Describe malaria as an example of biological method.
- Define different branches of Biology.