

## ***SUMMER VACATION HOMEWORK 2025***

### ***Instruction:***

- *This booklet contains the guideline for summer vacation work.*
- *Complete your holiday homework in a separate note book, assignment sheets or foolscap sheet as instructed.*
- *Try to do your vacation work by yourselves*
- *Parental guidance is recommended while completing the work. .*
- *Adhere to the school' prescribed handwriting pattern.*
- *Ensure your handwriting is neat and legible.*
- *Mention the Date and Day on each page of your work.*
- *Paste/ draw pictures where required and do so neatly.*
- *Prepare charts or projects as per the assigned Topics. (Note: Charts and projects carry marks )*
- *Holiday homework marks (15 marks for each subject) will be added in Final Exams Marks.*
- *Pay attention towards your health and follow healthy routines during the Vacations.*
- *Offer prayer daily.*
- *Homework submission Deadline: 11<sup>th</sup> and 12<sup>th</sup> August, 25.*
- *Please obtain homework submission receipt from teacher.*

***Happy Summer Vacation***

## Class 8 – GR

### English:

Chapter no 5, 6, 7

Read carefully and write at least 30 words and meanings.

Practice past, present tenses

Learn form of verbs shared in group.

Write down essays on these topics: football match, sports, scientific inventions

### Biology

#### Chapter No 2: Human Nervous System

- **Assignment:**
  1. Draw and label the human brain and spinal cord.
  2. Write a short note on how the nervous system coordinates body functions (150 words).
- **Creative Work:**
  - Create a 3D model of the brain using clay or craft material.

#### Chapter#03: Variation, Heredity and Cell Division

- **Assignment:**
  1. Explain the concept of heredity with examples from your family.
  2. Draw the stages of cell division (mitosis).
- **Creative Work:**
  - Create a family genetic tree showing 3 inherited traits (eye color, dimples, etc.).

### Chemistry

#### Chapter # 06: Chemical Reactions

- **Assignment:**
  1. List 5 chemical reactions you observe at home.
  2. Write both word and chemical equations for each.
- **Creative Work:**
  - Make a poster showing signs of a chemical reaction (color change, gas evolution, etc.).

#### Chapter #7: Acids, Bases and Salts

- **Assignment:**
  1. Make a table comparing acids, bases, and salts with examples.
  2. Test 5 household items using turmeric or litmus and record observations.
- **Creative Work:**
  - Prepare a mini-booklet titled “*Acids and Bases in My Kitchen*” with pictures and notes.

### Physics

#### Chapter # 10: Electricity and Magnetism

- **Assignment:**
  1. Explain with a diagram the working of a simple electric circuit.
  2. List 5 safety tips for using electricity at home.
- **Creative Work:**
  - Make a simple working electric circuit using a battery, wire, switch, and bulb.

#### Chapter # 11: Technology in Everyday Life

- **Assignment:**
  1. Write an essay on “*How Technology Helps Me Every Day*” (200 words).
  2. List 5 modern devices you use and how they work.
- **Creative Work:**
  - Make a collage showing old vs. modern technology (phones, gadgets, transport, etc.).

### Computer Science

Duration: 2 Months

#### Chapter 2: Data Communication and Computer Network

Assignment:

- Define the following terms: Data communication, Network, LAN, WAN, Protocols, and Transmission media.
- Draw and label a diagram of any **two types of network topologies** (e.g., Star and Bus).

- Explain the difference between wired and wireless communication with examples.

### **Creative Work:**

- Prepare a **chart/poster** showing types of networks (LAN, MAN, WAN) with images and examples from daily life.
- Make a model or sketch of your **school's computer lab network** layout using a specific topology.

## **Chapter 3: Microsoft Excel**

### **Assignment:**

- Write the steps to perform the following in MS Excel:
  - a) Insert a formula
  - b) Use AutoSum
  - c) Apply basic functions (SUM, AVERAGE, MAX, MIN)
- Create a **mark sheet** for 5 students with subjects and calculate total and average using formulas. (Attach a screenshot if done on computer)

### **Creative Work:**

- Design a **timetable** or **monthly expense sheet** using MS Excel (either on computer or graph paper if computer access is not available).
- Make a flashcard or mini-booklet of **10 useful Excel shortcuts and their functions**.

## **Chapter 5: Computational Thinking**

### **Assignment:**

- Define: Abstraction, Pattern Recognition, Decomposition, Algorithm.
- Write an algorithm for any **daily task** (e.g., preparing a cup of tea, packing a school bag).
- Solve any 3 logic puzzles or brain teasers related to patterns and sequences.

### **Creative Work:**

- Create a **comic strip or story** showing how a student uses computational thinking to solve a real-life problem.
- Prepare a **flowchart** showing the steps of solving a problem (like searching for a book in a library or doing a science experiment).

# **. Mathematics .**

## **Algebra .Chapter 2**

### **Assignment,**

- Do these exercises on Assignment sheets .

- **Ex : 2.4** ( Q.1 to Q.7 )
- **Ex : 2.5** ( Q.1 to Q.10 )
- **Ex : 2.6** ( Q.1 to Q.4 )
- **Ex : 2.7** ( Q.1 to Q.16 )
- **Ex : 2.8** ( Q.1 to Q.14 )
- **Ex : 2.9** ( Q.1 to Q.18 )
- **Ex : 2.10** ( Q.1 to Q.14 )

### **Practice:**

- Do the practice of these exercises on Assignment sheets.

Ex : 1.1 , Ex 1.2 , Ex 1.3 , Ex 1.4 , Ex 1.5 , Ex 1.6 , Ex 1.7 , Ex 1.8 , Ex 1.9  
Ex 2.1, Ex 2.2 , Ex 2.3

- Learn all the definitions from chapter 1

### **Creative Work:**

- Make beautiful handmade chart of following topics.

1. Real numbers
2. Algebraic Identities.

نظم : وطن کی مٹی گواہ رہنا۔

اسباق: پاکستان کی تہذیب و ثقافت۔ خواتین کا احترام اور مقام۔ کرپشن ایک سماجی برائی ہے۔  
نوٹ: ان تینوں اسباق کے مشقی سوالات اور جتنا بھی مشقی کام اور خلاصے لکھنے اور یاد کرنے ہیں۔  
گرائمر: مضامین قائد اعظم محمد علی جناح - وقت کی پابندی۔ سائنس کے کرسٹے۔

مکالمے: آلودگی کی وجوہات۔ گاہک اور سبزی فروش۔

درخواستیں: حصول سرٹیفیکیٹ۔ شادی میں شرکت کیلئے۔

( محاورات پہلے دس کتاب سفینہ اردو )

اسباق = کلمہ کی اقسام۔ اسم کی اقسام بناوٹ کے لحاظ سے )

نوٹ: گرائمر کا تمام کام لکھنا اور یاد کرنا ہے

اسلامیات

باب دوم: حج اور اس کی عالمگیریت

باب سوم: اسوۂ رسول اور ہماری عملی زندگی

باب ششم: امہات المومنین

تمام اسباق کے مشقی سوالات یاد کریں اور لکھیں

# **Life Skills**

## **1. Personal Hygiene & Self-Care**

- Trim your nails every week.
- Keep your clothes and footwear clean.
- Drink plenty of water and eat fruits to stay healthy.
- Avoid junk food and try basic cooking with help (e.g., making a sandwich or fruit salad).

## **2. Helping at Home**

- Assist in simple chores like:
- Setting and clearing the table.
- Watering plants.
- Folding clothes.
- Help your grandparents and parents with small errands.
- Take care of younger siblings (reading to them, playing safely).
- Organize your study desk or bookshelves.

## **3. Learning Responsibility**

- Create and follow a daily routine (waking up on time, study, play, etc.).
- Plan your own mini project (gardening, drawing, simple science experiments).
- Start a habit tracker (water intake, reading time, no screen time, etc.).
- Practice saving money using a piggy bank or money jar.

## **4. Communication & Social Skills**

- Greet people politely.
- Make phone or video calls to family members to stay connected.
- Practice speaking in English or a new language for fun.
- Write letters, postcards, or emails to friends or relatives.

## **5. Tech and Life Balance**

- Limit screen time (TV, mobile, games).
- Learn basic typing or how to use Google Docs or Slides.
- Watch educational videos or documentaries.
- Community Care (with parent's guidance)
- Donate old clothes, books, or toys.
- Participate in community clean-up or awareness activities

## **Student learning outcomes (SLO)**

### **By doing summer holiday homework students will**

- Develop consistent study habits and independent learning skills during the holidays.
- Reinforce previously learned concepts through revision and practice.
- Enhance understanding through self-directed learning and exploration
- Express ideas clearly through written assignments, projects, and creative work.
- Improve grammar, vocabulary, and structured writing through reading and journaling.
- Organize learning materials and maintain neat and accurate records of work.
- Show creativity in preparing charts, models, art, or written work.
- Explore new hobbies or skills like drawing, cooking, journaling, or crafting.
- Understand the importance of self-discipline and responsibility in daily life.
- Participate in household chores and show appreciation for others.
- Reflect values such as respect, honesty, and responsibility through actions.