St. Anthony's High School Faisal Town Lahore

Class 8A

HOLIDAYS HOMEWORK

Week 2

Name: _____

Class: _____Section: _____

Admission. No. _____

To,

To

The Parents,

1. This booklet contains summer vacation homework for 2025: projects and worksheets.
2. Vacation homework is designed to keep the children usefully engaged connecting the book knowledge with practical life.
3. The work is designed under the following formats based on activities
   a) Thematic work
   b) Intergraded work
   c) Projects
4. Parents are requested to support, guide and provide inexpensive material required to complete the work.
5. The work given is to develop skills, innovation and creativity, the work done by anybody except the students will not be checked.
6. Where necessary instructions are given to the child and to the parents to guide and support the child in completing work.
7. The summer vacation homework suggests visiting parks, zoo, and other educational and recreational locations for activities.
8. We hope this exercise will help children and parents to spend some quantity time together, which they miss during the school days and turn the learning into a joyful experience. Hence we plan the event meaningfully.
9. Do not use expensive material.
10. HW is given on weekly basis for 7 weeks. HW of the 1st week will be uploaded on the website and on shared on WhatsApp groups by 8th of June 2025.
11. Please refrain from doing the entire home work in one week.
12. Teachers will be available on phone/WhatsApp between 10am to 12noon till 20th June 2025.
13. Email ID of every teacher is mentioned at the end of the page. For any further clarification you can email to ace@stanthonys.edu.pk.
14. Please note that you will receive the response of the email within 24 working hours up to 20th of June 2025.
15. Make a permanent work place and work time, this will help you bring discipline into your work routine.
16. All the home work should be submitted on 7^{th,} 8th and 9th of August 2025.
17. Please compile all the projects and worksheets in the form of a booklet with the name of the students, admission number, and class mentioned clearly on the cover page. Please get the colored print of the cover page.
18. Do collect the receipt of the submitted homework.
19. In case of any delay, submit your homework with an application to the coordinator.
20. Any changes to the above will be intimated to you through the website/FB.
21. Email Ids: ambreen@stanthonysft.edu.pk, , fouzia@stanthonysft.edu.pk, kirana@stanthonysft.edu.pk, mariam@stanthonysft.edu.pk, , , , , sonila@stanthonysft.edu.pk.

Class	Week 2	Date:
Subject	Homework Project	Instructions
English	Task 2: Read a novel "As you like it" and after reading or watching this video and write down answers of these questions. 1.How does As You Like It explore the idea of identity and disguise? 2.What message does the play convey about love? 3.If "As You Like It" were set in the modern world, how would the story change? Vocabulary journal: Pick next 10 new words each week from your reading or experiences and use each in a sentence.	Watch this link carefully: https://youtu.be/w88VVmSBb_c?si=EZs5MOXndudv2dT8
Urdu	https://www.youtube.com/watch?v=zkdWnW9qMkc سوال نمبر ۱۔ مندرجہ بالا ویڈیو دیکھنے کے بعد درج ذیل درخواست تحریر کریں تعلیمی ادارے (اسکول) میں داخلے کی درخواست تحریر کریں سوال نمبر ۲۔ "درخواست لکھنے کا عمل، خواہ وہ نوکری کے لیے ہو یا کسی سرکاری سہولت کے لیے، موجودہ دور میں کتنا مؤثر اور شفاف ہے؟ کیا روایتی درخواستیں اب بھی اپنی افادیت برقرار رکھتی ہیں یا ڈیجیٹل دور میں ان کی اہمیت کم ہو گئی ہے؟ اس کے فوائد اور نقصانات پر تنقیدی بحث کریں؟" (جواب کم از کم ۱۵ سطور پر مشتمل ہونا چاہیے) اسم صوت: وہ اسم جو کسی آواز کو ظاہر کرنے کے لیے استعمال کیا جائے سوال نمبر ۳۔ مندرجہ ذیل اسمائے صوت کے متعلق بنائیں کہ وہ کن کی آواز ہیں؟ چھک چھک، میاوں میاوں، کُٹ کُٹ، میں میں، ٹپ ٹپ، چُوں چُوں، دھک دھک، ٹک ٹک، چھم چھم تتشابہ الفاظ: سوال نمبر ۴۔ درج ذیل چند تتشابہ الفاظ کے معانی اور جملے لکھیں	

	ارض۔ عرض، اسرار۔ اصرار، امارت۔ عمارت بے باک۔ بے باق، اثر۔ عصر، پارہ۔ پارا الم۔ علم، چاق۔ چاک، ابد۔ عبد، حلال۔ ہلال	
Mathematics	Topic: Middle term breaker Question 1: Gardening Area A gardener wants to make a rectangular flower bed. The area of the bed is given by the expression: $x^2 + 7x + 12$ square meters. ● Use the middle term breaker method to find the possible length and width of the flower bed. ● Write both dimensions using algebraic expressions.	Use the following video link and solve all the questions on full scape sheets https://www.youtube.com/watch?v=jf97WBVezkk Practice all questions on foolscap sheets
	Question 2: Framed Mirror A rectangular mirror is surrounded by a wooden frame. The area of the full mirror with the frame is: $x^2 + 13x + 36$ cm². ● Use middle term breaking to factor the expression and find the dimensions of the mirror including the frame.	
	Question 3: Playground Tiles A school is tiling a square area in the playground. The total number of tiles used is given by: $x^2 + 11x + 24$ ● Factor the expression to find the possible dimensions (length $\times$ width) of the tiled area.	
	Question 4: Product Packaging A factory packs products in boxes. The total number of products in one large box is given by the expression:	

$x^2 + 8x + 15$
- Use the middle term breaker method to find how the products could be arranged in rows and columns.

Question 5: Science Exhibition
In a science fair, students create a rectangular poster board with an area expressed as:
$x^2 + 10x + 25$ cm²
- Factor the expression to determine the side lengths of the square or rectangle board.

Question 6: Eid Gift Boxes
A teacher is preparing gift boxes for Eid. The number of chocolates in a box is given by the expression:
$x^2 + 9x + 20$
- Factorize the expression to find how the chocolates are arranged in the box (i.e., number of rows and columns).

Practice Ex # 2.7 to 2.12 (solve 5 questions from each exercise)
Activities :
☐ Activity 1: Algebra Puzzle Match

Instructions: Match each quadratic expression with its correct pair of binomial factors.

Expression	Match the Factors
$x^2 + 10x + 24$	$(x + 4)(x + 6)$
$x^2 + 7x + 10$	$(x + 2)(x + 5)$
$x^2 + 9x + 18$	$(x + 3)(x + 6)$

x² + 11x + 28	(x + 4)(x + 7)
x² + 8x + 15	(x + 3)(x + 5)

☐ Activity 2: Riddle Me This!

Factor the expressions below using the middle term breaker method. Then match each factor to a letter using the code given to solve the riddle:

Riddle: *What is a math teacher's favourite type of tree?* ☐

Code:

A = (x + 2)(x + 5)
B = (x + 3)(x + 4)
C = (x + 1)(x + 6)
D = (x + 4)(x + 4)
E = (x + 5)(x + 5)

1. x² + 7x + 10 → _____
2. x² + 6x + 8 → _____
3. x² + 5x + 4 → _____
4. x² + 8x + 16 → _____
5. x² + 10x + 25 → _____

Write the matching letters to find the answer.

Complete the following fun activities. Use the middle term breaker method to factorize each expression. Be neat and creative!

☐ Activity 3: Algebra Art Box

Instructions: Create a colorful Factor Tree Poster for any two expressions below by using the middle term breaker method. Draw a tree showing how the expression breaks into two binomials.

- x² + 12x + 35
- x² + 13x + 42
- x² + 6x + 9
- x² + 14x + 48

Decorate your poster with colors, algebra symbols, and your name.

	🧩 Activity 4: Real Life Factor Hunt Instructions: Look around your house or neighborhood and write 2 real-life examples where objects can be represented using quadratic expressions (like rectangle areas, number of tiles, chocolate trays, etc.) ● Write your quadratic expression. ● Factor it using the middle term breaker method. ● Explain what each factor represents.	
	🎲 Bonus Challenge: Factor & Design Design a board game card that uses a quadratic expression. Example: Card Example: "You landed on the 'Math Market'! Factor $x^2 + 5x + 6$ to win 5 points!" Answer: $(x + 2)(x + 3)$ Make 2 such cards yourself using your own expressions and decorate them!	

Science	Activity no.2 Research Project on "Pakistani Astronomers & Space Missions"
	Objective:
	To explore Pakistan's contributions to astronomy and space science, focusing on Dr. Abdus Salam (Nobel Prize-winning physicist)
	Create a 1–2-page report under the following headings.
	
	● Title: E.g., "Pakistan's Star Scientist: Abdus Salam" or "SUPARCO: Pakistan's Journey to Space".
	● Sections:
	  1. Introduction (Who/what you're researching).
	  2. Key Contributions (Discoveries, missions, or inventions).
	  3. Impact (How it helped science/the world).
		Instructions:
		
		● Use Reliable source to research his work on cosmic rays, unified field theory, and how it advanced our understanding of the universe.
		● Nobel Prize Biography of Abdus Salam.(use this link)
		● Avoid Wikipedia (use it only to find cited sources).

	4. Fun Fact (E.g., "Dr. Salam was the first Pakistani Nobel laureate!"). 5. Why did he win the Nobel Prize in Physics (1979)? ● Visuals: Add images (e.g., Dr. Salam's photo).	● Use A4 colored sheets to complte this activity.
Social Studies	HISTORY: **INTRODUCTION:** The League of Nations was formed after World War I to prevent future wars, but it proved ineffective, especially with the United States' refusal to join. The United Nations was established on October 24, 1945, following the ratification of the UN Charter by key allies and other signatories. The General Assembly first convened on January 10, 1946, and the Security Council followed a week later. The first UN resolution, addressing atomic energy issues, was adopted shortly thereafter. **VIDEO'S LINK:** https://www.youtube.com/watch?v=I-F7VnSQcg0 · **AFTER WATCHING THE VIDEO WRITE THE SUMMARY OF THE VIDEO.** **10 QUESTIONS FOR STUDENTS:** After watching the video attentively, answer the following questions: 1. When was the United Nations officially established? 2. What was the main goal in forming the League of Nations? 3. Where are the principal organs of the UN located? 4. What are the six principal organs of the	**Presentation:** Use **A4-sized assignment sheets** for all work. Write neatly with a **blue pen**. Label each sheet with **name, class, section, roll number, and topic**. **Organization:** Complete tasks **week-wise** and arrange them in Computer **Subject File**. **Staple or clip** sheets in order before submission.

	UN? 5.　How many states are part of the UN Security Council at any given time? 6.　How are the judges of the International Court of Justice selected? 7.　What is the role of the UN Secretariat? 8.　What is the main function of the Trusteeship Council? 9.　How long is the term for which the Secretary-General is elected? 10.　How does the International Court of Justice achieve a state's consent to appear before it? **EVALUATE THE SCENARIO WHEREIN THE UNITED NATIONS WAS NOT ESTABLISHED. ANALYZE THE POTENTIAL RAMIFICATIONS FOR THE ARCHITECTURE OF INTERNATIONAL RELATIONS AND ASSESS WHETHER THE PREVAILING CONDITIONS OF GLOBAL PEACE AND SECURITY WOULD LIKELY BE COMPARABLE TO THE CURRENT STATE.**	
Computer Studies	Google Sheets: Budget Planner for a School Event Objective: Use Google Sheets to organize and analyze financial data. Guidelines: Event Name: List of Items (e.g., snacks, decorations, transport): Estimated Cost: Actual Cost: Total Budget: Total Spent: Remaining Balance: Note: Use formulas: SUM, subtraction for balance, percentage if applicable.	