



**MILLENNIUM
EDUCATION**



Department of International
Qualifications, Curriculum
and Assessments

40
YEARS OF
EDUCATION
LEGACY



GRADE 6 till IGCSE-I

THE MILLENNIUM MIDDLE YEARS | TMMY
THE MILLENNIUM UPPER MIDDLE YEARS | TMUMY

#LowerSecondaryTier

#SecondaryTier



www.tme.edu.pk



From the Desk of the Director Education The Millennium Education Group

Dear Learners,

As we begin our Summer Break, I would like to take a moment to congratulate each of you on your achievements, growth, and perseverance throughout the academic year. Whether you are in TMEY, TMPY, TMMY, TMUMY, or TMCY, every step of your learning journey matters, and you should be proud of the progress you have made.

To help you continue learning over the holidays, your teachers have carefully prepared a Summer Break Homework Pack. These activities have been designed to be engaging, meaningful, and age-appropriate, allowing you to:

- Reinforce key concepts and skills learned during the year.
- Maintain positive learning habits and routines.
- Develop creativity, curiosity, and independent thinking.
- Read, research, explore, and apply learning in real-world contexts.
- Prepare confidently for the next stage of your educational journey.

Remember, learning does not only happen in the classroom. Summer is a wonderful opportunity to discover new interests, read books, practise important skills, spend quality time with family, explore the world around you, and engage in activities that help you grow as a learner and as an individual.

We encourage you to complete your Summer Break Homework Pack with care and pride, setting aside regular time each week to work through the activities. Small, consistent efforts over the break will help you return to school feeling confident, prepared, and ready for new challenges.

Most importantly, enjoy your holidays. Rest well, stay active, stay safe, and make wonderful memories with your family and friends.

We look forward to welcoming you back for another exciting year of learning, growth, and achievement.

Wishing you a happy, productive, and inspiring Summer Break.

Warm regards,

Amna Salik

Director Education
The Millennium Education Group





ENGLISH

NOTE: Please organize all reinforcement activities into a booklet laid out on A4 pages.

1. Reading Adventure Challenge

Choose *any one*:

- A short story
- A biography
- A chapter from a novel
- A newspaper/magazine article

Then:

- Write a *creative summary* (12-15 sentences).
- Pick *5 powerful words* and create a mini comic strip explaining them.
- Write a *character diary entry* from the point of view of any character.

2. Creative Writing Quest

Choose *any ONE* and write a *personal essay*:

- Travel Blog “*My Most Unexpected Vacation Moment*”
- Mystery Story Starter “*The moment I opened the old wooden box...*”

3. Grammar Fun Zone

- Create *10 sentences* using different tenses. Specify the tense for every sentence you write.
- Write *5 pairs of confusing words - Homophones (there/their)* and use each in a sentence.

4. Vocabulary Creativity Corner

Pick *15 new words* from *Unit 6 (Learner’s book)* and write:

- Meanings.
- Synonyms + antonyms.
- A fun sentence.

5. Bonus Creative Task:

Choose any one:

- Write a poem using simile, metaphor, and alliteration.
- Create a comic strip titled “*A Day in My Life*”.
- Write a dialogue between you and your favourite fictional character.

6. English Puzzle Time

Create:

- 1 crossword puzzle (8-10 words)
- 5 vocabulary riddles

7. Vacation Moments Mini Journal

Write 5 short entries (5-6 lines each):

- Something new you learned
- A funny moment
- A place you visited
- A person you met
- A moment you felt grateful
- Make a booklet and add pictures.



MATHEMATICS

NOTE: Please organize all reinforcement activities into a booklet laid out on A4 pages.

Exponents

Solve:

1a. 10^{10} 1b. 8^1

2a. 1^5 2b. 10^1

3a. 2^4 3b. 0^4

4a. 7^2 4b. 8^0

5a. 6^5 5a. 7^1

Place Value/Rounding

Round the following numbers to the accuracy of the underlined digit.

For example, $56\underline{7}8$ means you round to the nearest ten.

1a. $68\underline{1}411$ 1b. $96\underline{5}031$

2a. $64\underline{5}940$ 2b. $43444\underline{9}$

3a. $2567\underline{5}2$ 3b. $3564\underline{7}9$

4a. $539\underline{7}70$ 4b. $19\underline{5}927$

5a. $5658\underline{9}4$ 5a. $7417\underline{2}3$

Algebra: Order of Operations

Solve in the correct order.

1a. $1 + 2^3$ 1b. $3 - (10 \times 2)$

2a. $\frac{3-1}{4}$ 2b. $\frac{(1+1)^3}{7}$

3a. $\frac{6}{6} + 10.7$ 3b. $\frac{(2-1) \times 9}{6}$

4a. $3 - 2 + 1^3$ 4b. $-4.25 - 6.78$

Expressions

Evaluate expressions: usually one operation, no negative numbers

- Find the value of the expressions for the given values of the variable(s).

1a. $u + d + 7$, when $u = 3$ and $d = 4$

1b. $\frac{a}{4}$ when $a = 8$

2a. $\frac{s}{4}$ when $s = 2$

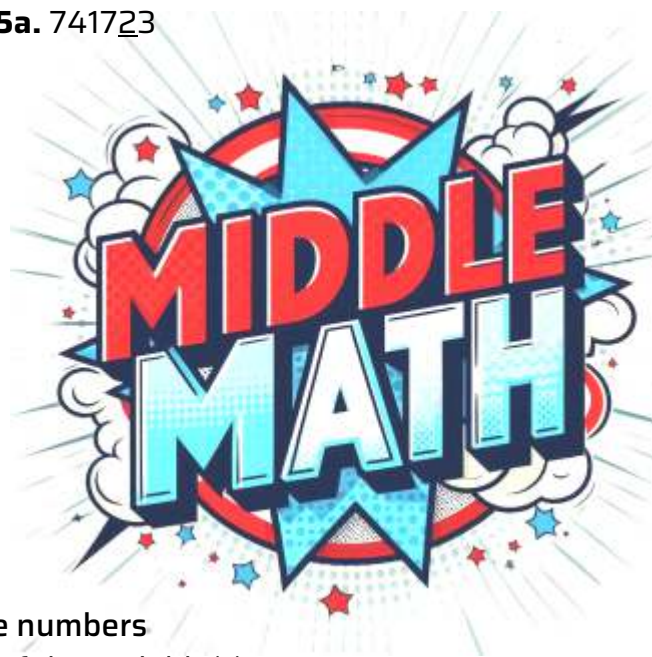
2b. $b + 7$, when $b = 6$

3a. $\frac{10}{s}$, when $s = 3$

3b. $s + v$, when $s = 1$ and $v = 6$

4a. $k + y + 2$, when $k = 9$ and $y = 6$

4b. $3 \times b$, when $v = 1$ and $b = 1$



Expressions

Evaluate expressions: usually one operation, larger numbers, no negative numbers

- Find the value of the expressions for the given values of the variable(s).

1a. $u + 31 + b$, when $u = 33$ and $b = 1$

1b. $16a$, when $a = 3$

2a. $n - g$, when $n = 18$ and $g = 22$

2b. $u + b + 43$, when $u = 32$ and $b = 45$

3a. g^5 , when $g = 5$

3b. $\frac{q}{44}$, when $q = 43$

4a. $b + s$, when $b = 5$ and $s = 14$

4b. z^3 , when $z = 46$

Expressions

Write a number expression from expression given in words: one operation.

- Write an expression.

1a. 9 divided by x

1b. n increased by 92

2a. sum of b and 70

2b. 68 divided by k

3a. 5 subtracted from w

3b. x cubed

4a. difference of 6 and a

4b. 65 divided by s

5a. s times 6

5b. z and 9 more

6a. v squared

6b. 8 fewer than w

Expressions

Write a number expression from expression given in words: two operations

- Write an expression.

1a. v squared over 6

2a. 5 minus $3z$

3a. 8 w less than 65

4a. the quantity p plus 3, divided by 74

5a. 8 x less than 8

6a. the sum of v squared and 6

7a. the sum of 45 a and 90

Expressions

Simplify expressions (by combining like terms; no negative numbers)

- Simplify the expressions.

1a. $a + 2a + a + a + a + a$

1b. $9p - 2 + 9 - 5p$

2a. $10a + 5 - 8a$

2b. $6 + 10k - 4 - 7k$

3a. $10z + 9 - 2z$

3b. $9m - 8m + 2 + 7m$

4a. $k + 6k + k + k + k$

4b. $8 - 7m + 4m + 6 + 4m$

5a. $3 + 5a - 2 - 4a$

5b. $3s - 5s + 7 + 6s$

Multiply using the distributive property

- Use the distributive property to simplify the expressions.

1a. $9(10 + 7v)$

1b. $4(9 + 7m)$

2a. $7(7n + b)$

2b. $3(5r + 7)$

3a. $7(5k + 11)$

3b. $9(4 + 5t)$

4a. $6(8g + 9)$

4b. $4(5 + 9d)$

5a. $2(5k + 4)$

5b. $5(4g + 11)$

6a. $9(11 + 8a)$

6b. $5(2t + 1)$

7a. $5(7t + x)$

7b. $7(3 + 4b)$



Equations

One-step equations with whole numbers (no negative numbers involved)

- Solve the equations

1a. $11 - a = 9$

1b. $a - 9 = 4$

2a. $9 - 2 = p - 7$

2b. $n + 11 = 12$

3a. $3 - 3 = \frac{w}{4}$

3b. $1 + z = 3$

4a. $3 = 8 - w$

4b. $4c = 8 + 3$

5a. $p - 10 = 2$

5b. $5 + 10 = 3 + k$

6a. $y + 9 = 10$

6b. $3 + m = 8 + 6$

Equations

One-step equations where you need to first simplify something on one side

- Solve the equations

1a. $9 = 6a - 4a$

1b. $10 = 1 + m$

2a. $7a = 6 + 9$

2b. $8 - 7 = 1 - x$

3a. $6 + 3 = \frac{a}{6}$

3b. $7 - p = 2$

4a. $12 - 12 = 5 - k$

4b. $1 + t = 6$

5a. $9 = n + 3$

5b. $9 = a - 6$

6a. $5 + v = 11$

6b. $12 \cdot 5 = 11 + m$

Equations

One-step equations where you need to first simplify something on one side

- Solve the equations

1a. $11 - a = 9$

1b. $a - 9 = 4$

2a. $9 - 2 = p - 7$

2b. $n + 11 = 12$

3a. $3 - 3 = \frac{w}{4}$

3b. $1 + z = 3$

4a. $3 = 8 - w$

4b. $4c = 8 + 3$

5a. $p - 10 = 2$

5b. $5 + 10 = 3 + k$

6a. $y + 9 = 10$

6b. $3 + m = 8 + 6$

Note: Please practice all the above topics on the given games links as well.

www.mathgames.com/skill/5.14-convert-numbers-with-hundreds-thousands-millions

SCIENCE

Topic 1: Earth Physics (Earth & Space)

- State the three main layers of the Earth.
- Why do we have day and night?
- What happens to the length of a shadow when the Sun is high in the sky?

Topic 2: Microorganisms in the Environment

- Name one useful microorganism and one harmful microorganism.
- State one condition that helps microorganisms grow faster.
- How do microorganisms cause food to spoil?

Topic 3: Changes to Materials

- Is melting ice a reversible or irreversible change?
- Burning paper is what type of change?
- Explain why rusting is a chemical change.

Topic 4: Electricity

- Name two components needed to make a simple circuit.
- Which material is a good conductor: plastic or copper?
- What happens in a circuit when the switch is open?



INFORMATION COMMUNICATION TECHNOLOGY - ICT

Dear Learner,

Welcome to ICT Summer Homework - Grade 6.

Please follow the instructions below to access and complete your summer homework:

- Visit the provided link <https://tinyurl.com/SHW-ICT-GRADE-6> download all files in a folder and open the **Index.html** file.
- Upon first access, you will be prompted to enter your information. Please carefully enter your full name, admission number, and campus name.

Grade 6 AI Academy

Welcome back! Please write your Name, Campus, and Admission Number to log in or sync your homework sheets.

What is your Name?
Enter your full name here...

What is your Admission Number?
Enter your admission number here...

Write your Campus Name
e.g. THE One World Campus

Enter Learning Lab

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www.mie.edu.pk

- After submission, your **dashboard** will be displayed.
- Navigate through each chapter, read the content thoroughly, and attempt the corresponding quizzes.

Note: After completing a chapter or before exiting, click the **Sync** button to save your progress.

Important: You may revisit chapters and quizzes at any time. If you choose to reset your progress, all previous data and records will be permanently deleted.

GEOGRAPHY

Collect pictures of different types of mountains and find out some facts about each.

▶ <https://www.youtube.com/watch?v=UaaWoqlv9no>

Watch this video and write how fold mountain and fault block mountains are formed?

▶ <https://www.youtube.com/watch?v=DKyUY1tnRRM>

Watch this video and write how plateaus are formed?

▶ <https://www.youtube.com/watch?v=QJUs4e2X5Uo>

Refer to this video and book unit 6 and give answers to following questions

- Explain different types of erosion.
- Write the difference between weathering and erosion.
- Present your work in a neat scrapbook/booklet. Add headings, labels and captions for neat and tidy work.

HISTORY

▶ <https://www.youtube.com/watch?v=p7ohY807mT0>

- Refer to the video of The Umayyad for answering the questions.
- Make timeline, of Unit 2 “The Umayyads. List down their prominent leaders, their contributions and Reason for Decline of Umayyads.
- Print the picture of Toledo from book page 18. Paste it on A4 Sheet and write 5 important points about Toledo.
- Refer to the video of The Crusades for answering following question.

▶ <https://www.youtube.com/watch?v=CcGzQ3ga5R8>

▶ <https://www.youtube.com/watch?v=hkubfuPAdR4>

- Make Timeline of Unit 5 “The Crusades” and learn it by heart.
- List down causes of 1st Crusade, 2nd Crusade and 3rd Crusade.
- Who was Salahuddin Ayyubi? Print his picture and write his achievements.

ISLAMIYAT

- Memorise surah Al-Inshirah, Surah Al-Qadr and Surah Teen.
- From Chapter 4 “Good Conduct and Character” read Rights of People from pg. 44 to pg. 48. Make a list of good deeds you can do to help children, neighbors and teachers.
- Make a daily prayer record showing which prayers you offered each day. Bring the completed record sheet after Holidays.

اردو



- آپ نے جماعت ششم میں بہت سے ضرب الامثال پڑھے ہیں اپنے من پسند ضرب الامثال کی تصویر کشی کسی سفید صفحے پر کیجیے۔ ضرب الامثال کا مفہوم بھی تحریر کیجیے۔
- پاکستان میں موجود کتب خانے (لائبریری) کی تصاویر ایک سادہ صفحے پر چسپاں کیجیے اور کتب خانوں کے نام تحریر کیجیے۔
- اگر آپ کو یہ موقع ملے کہ آپ اپنی اردو کی کتاب مرتب کریں تو آپ اُس میں کس قسم کے اسباق شامل کرنا چاہیں گے۔ ایک پیرا گراف میں جواب تحریر کیجیے۔
- جماعت ششم میں پڑھی گئی قواعد کے کسی ایک عنوان کی پاور پوائنٹ پریزنٹیشن بنائیں۔

دیئے گئے معممہ سے الفاظ تلاش کیجیے۔

ک	ج	ل	م	س	ا	ہ	ی	و	ا	ل
ل	ن	ظ	ق	ک	پ	ش	ب	ل	ھ	ی
ج	گ	ق	آ	ب	ش	ا	ر	و	ہ	ھ
ھ	ل	ا	ہ	و	ر	م	ب	ک	ق	ج
ر	ی	ل	گ	ا	ٹ	ی	ط	ہ	ظ	ک
پ	ا	ک	س	ت	ا	ن	ج	ا	ق	گ
چ	ھ	ا	ن	گ	ا	م	ا	ن	گ	ا
ہ	ق	گ	ش	ن	ک	ش	ت	ی	ے	ے

پاکستان۔ جنگل۔ لاہور۔ کشتی۔ ریل گاڑی۔ چھانگامانگا۔ کہانی۔ جھیل۔ ساہیوال۔ آبشار۔

GRADE 7

ENGLISH

NOTE: Please organize all reinforcement activities into a booklet laid out on A4 pages.

Write a one-day diary entry, every week of your vacations.

Read the play *Julius Caesar* and write a detailed account explaining how ambition, persuasion, and betrayal shape the events of the play. Your analysis must include:

- Caesar as a leader and how he is presented when first introduced
- Brutus's moral conflict and why he decides to join the conspirators
- Cassius's influence on Brutus and his role in plotting against Caesar
- The turning point of Caesar's assassination and its immediate consequences
- How Mark Antony's speech transforms public opinion and changes the course of the story
- The final outcomes for Brutus and Cassius

Inside Out (Movie)

After watching the movie *Inside Out*, explain how emotions guide our decisions and relationships. Discuss how the film shows the importance of understanding and managing feelings.



Wonder (Novel / Movie)

Wonder follows the story of August Pullman, a boy with a facial difference who joins school for the first time. Write a review focusing on themes of kindness, acceptance, courage, and friendship.



Students must complete all the following tasks in their composition copies.

Write the definitions of the following literary devices:

- Alliteration
- Sibilance
- Onomatopoeia
- Allusion
- Simile
- Metaphor
- Personification
- Hyperbole

Write short notes on:

- Present tense participles
- Past tense participles
- Their use in sentence transformation

Write the difference between the following pairs:

- Alliteration vs. Sibilance
- Simile vs. Metaphor
- Onomatopoeia vs. Personification
- Direct Speech vs. Indirect Speech
- Active Voice vs. Passive Voice

Write five examples each of:

- Alliteration
- Onomatopoeia
- Simile
- Metaphor

1. Convert the following from Direct to Indirect Speech (write any five of your own examples).
2. Convert the following from Active to Passive Voice (write any five of your own examples).

Joining Sentences Using Participles:

- Write the definition of a participle.
- Write what present participles and past participles are.
- Join five pairs of simple sentences using present participles.
- Join five pairs of simple sentences using past participles.

MATHEMATICS

Practice the following questions.

Exercise	Questions	Exercise	Questions
Ex:1.1	Q. 1-5	Ex:3.2	Q. 1-5
Ex:1.2	Q. 16-17	Ex:4.1	Q. 1-3
Ex:1.3	Q. 1-7	Ex:4.2	Q. 1-6
Ex:1.4	Q. 1-5	Ex:4.3	Q. 1-4
Ex:2.1	Q. 8-12	Ex:4.4	Q. 1-3
Ex:2.2	Q. 3-5	Ex:5.1	Q. 1-5
Ex:2.3	Q. 1-7	Ex:5.2	Q. 1-5
Ex:2.4	Q. 1	Ex:5.3	Q. 1-5
Ex:2.5	Q. 1	Ex:7.1	Q. 1
Ex:2.6	Q. 1-5	Ex:7.2	Q. 1-3
Ex:3.1	Q. 1-4	Ex:6.1	Q. 1-6

SCIENCE

Kahoot Learning Tasks

Sign up at www.kahoot.com and play games on the following topics:

- a. Light (Reflection & Refraction)
- b. Magnetism (Magnets & Magnetic Fields)

Digital Mind Maps (Using MindMeister)

Use www.mindmeister.com to create mind maps with 7-10 relevant ideas for each topic:

- Light
- Diet and Growth
- Chemical Reactions
- Magnetism

3-D Model Making

Create two 3-D models of the following concepts:

- Reflection of Light (mirror setup) or Refraction through a prism
- Magnetic Field Lines of a Bar Magnet (You may use cardboard, clay, colored paper, wires, etc.)

PowerPoint Presentations (8-10 Slides Each)

Explore the site: <https://www.bbc.co.uk/bitesize> and prepare PPTs (in your own words) on:

- Balanced Diet, Nutrients & Human Growth
- Chemical Reactions & Their Signs
- Magnets, Electromagnetism & Their Uses



INFORMATION COMMUNICATION TECHNOLOGY - ICT

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GEOGRAPHY

1. AGRICULTURE

Project: *Design a Sustainable Farm*

- Page reference: Unit 4 "Agriculture" — pages 47-64 of text book.
- Video resources:

▶ <https://www.youtube.com/watch?v=xFqecEtdGZO>

good as an introduction to agriculture

▶ <https://www.youtube.com/watch?v=divmWrMGkHo>



Refer to this video and book unit 6 and give answers to following questions

- Explain different types of erosion.
- Write the difference between weathering and erosion.

Explains what sustainable farming means and describe its methods.

Project instructions (with video support):

1. Watch the agriculture video(s), then refer to pages 47-64 to understand crops, land use, and farming in Pakistan.
2. Create a labelled diagram on chart paper of a small farm using **two sustainable farming methods** (for example, crop rotation + drip irrigation, or organic manure + mixed cropping).
3. Write a short explanation (6-8 lines) of:
 - Why the chosen methods are sustainable (using ideas from the video and book).
 - How they help environment and farm yield.

Focus: *Climate Change* — understanding causes, effects, and mitigation

- Page reference: Unit 5 “Climate Change” — pages 65-78 in Textbook for Grade 7.
- Video resources:

▶ https://www.youtube.com/watch?v=G9t_9Tmwv4

basic lesson on climate change.

▶ <https://www.youtube.com/watch?v=SN5-DnOHQmE>

covers greenhouse effect, ozone layer, climate change concepts as in the book.

▶ https://www.youtube.com/watch?v=G4H1N_yXBIA

real effects of climate change on agriculture in Pakistan.

watch the climate change videos and answer the questions on A4 sheet.

1. What is climate change? Explain in your own words, with one example.
2. How is climate change affecting Pakistan? Give two impacts (on people, agriculture or environment).
3. Suggest two ways students (or families) can help reduce climate change in daily life.
4. Why is global cooperation important in dealing with climate change?



3. MINERAL POWER (Minerals & Energy Resources)

Focus: *Minerals & Power Resources in Pakistan – what they are, how they are used*

- Page reference: Unit “Minerals and Power Resources” – pages 79-98 in text book grade7.

Video resources:

▶ <https://www.youtube.com/watch?v=xbkEITV7sok>

What are Minerals?

▶ <https://www.youtube.com/watch?v=ViXtT8c4z-c>

What is Energy?

▶ https://www.youtube.com/watch?v=G4H1N_yXBiA

Power Resources

▶ https://www.youtube.com/watch?v=Giek094C_l4

Research / Short-Answer Questions:

- What is a “mineral”? Give two examples of minerals found in Pakistan.
- Why are minerals important for a country’s development?
- Name **two power/energy resources** found in Pakistan (e.g., coal, hydel, natural gas, solar) and describe how they are used.
- What is one benefit and one challenge of using non-renewable resources (like coal or fossil fuel) in Pakistan?

HISTORY

UNIT 6 – THE ROLE OF THE OTTOMAN EMPIRE

Instructions:

Watch the videos, read your textbook Unit 6, and then answer the questions on A4 sheet.

Recommended Video

▶ <https://www.youtube.com/shorts/oQNTbDnDxc>

Questions (Write answers on A4 sheet)

- Describe the condition of the Ottoman Empire before World War I.
Explain how political weakness, internal problems, and European influence affected the empire.
- Who was Mustafa Kemal Atatürk, and what role did he play in the final years of the Ottoman Empire?
- Why is the decline of the Ottoman Empire considered an important event in world history?
Explain its impact on the Muslim world and the political map of the region.

UNIT 7 – THE SECOND WORLD WAR

Instructions:

Watch the video, read Unit 7 from your book, and answer the questions on A4 sheet.

Recommended Video

▶ <https://www.youtube.com/watch?v=58XB00voGAI>

Questions (Write answers on A4 sheet)

- What were the main causes of the Second World War?
- How did the war affect people living in Europe and Asia?
- Mention two important outcomes of World War II.

UNIT 8 — THE STRUGGLE FOR INDEPENDENCE

Questions (Write answers on A4 sheet)

- What were the main reasons behind the demand for independence from British rule?
- Explain Rowlatt act.
- What major events led to the creation of Pakistan in 1947?

ISLAMIYAT

- Memorise Surah Al-Zuha, Surah Al-Zilzal and Surah Al-Qariah.
- Read about the personality of Sultan Salahuddin Ayubi from pg. 52 to pg. 55 and write about the positive traits of his personality.
- Make a daily prayer record showing which prayers you offered each day. Bring the completed record sheet after Holidays.

اردو

- اردو لغت سے کم از کم ۱۰ نئے الفاظ سیکھیے۔
- اپنے والدین میں سے ایک کا انٹرویو کیجیے اور والدین کی گفتگو سے آپ نے جو سیکھا اُسے قلمبند کیجیے۔
- اردو کی ایپ بنائیے جس میں اردو کی دلچسپ اور مختصر کہانیاں ہوں۔ **Little story maker**
- مکمل اخبار (4 صفحات)
- صفحہ اول: سرخی + بڑی خبر
- صفحہ دوم: کسی بزرگ / استاد کا انٹرویو
- صفحہ سوم: میرا کالم
- صفحہ چہارم: تخلیقی گوشہ (نظم، خط نویسی، کہانی)
- سماجی مسئلے پر رپورٹ
- صفائی، ٹریفک، پانی یا جانوروں کے تحفظ پر تصویروں اور تحریر کے ساتھ رپورٹ بنائیں۔
- یادداشت نویسی
- "میری بہترین چھٹی" یا "ایک یادگار لمحہ" پر 1 صفحے کی یادداشت لکھیں۔

GRADE 8

ENGLISH

NOTE: Please organize all reinforcement activities into a booklet laid out on A4 pages.

Write a one-day diary entry, every week of your vacations.

Read the play *Macbeth* and write a detailed account of how Macbeth's ambition led to his destruction.

Your analysis must include:

- Macbeth as a person when first introduced in the play
- Influence of the witches and Lady Macbeth
- The transformation of his personality as he continues committing crimes
- His reaction to his wife's death and his own end

Coco (Movie)

After watching the movie *Coco*, explain how you can say that the love of family is very important for people, even after death.



The Blind Side (Movie)

Michael, a homeless African American boy, is adopted by a family. Write a review of the movie with a focus on the themes of family, determination, and loyalty.



GRAMMAR TASKS:

Students must complete all the following tasks in their composition copies.

Literary Devices & Analysis

Write the definitions of the following literary devices:

- Alliteration
- Sibilance
- Onomatopoeia
- Allusion
- Irony
- Foreshadowing
- Imagery
- Symbolism
- Oxymoron
- Personification
- Hyperbole

Write the difference between:

- Metaphor vs. Simile
- Irony vs. Sarcasm
- Symbolism vs. Imagery
- Foreshadowing vs. Flashback
- Alliteration vs. Assonance
- Sibilance vs. Onomatopoeia

Write five examples each of:

- Metaphors
- Similes
- Alliteration
- Onomatopoeia
- Hyperbole
- Personification

- Identify the literary devices used in any 10 sentences of your own creation.

DIRECT, INDIRECT, ACTIVE & PASSIVE

Convert the following from Direct to Indirect Speech:

- Write eight examples of your own.
- Convert the following from Indirect to Direct Speech:
- Write eight examples of your own.
- Convert Sentences from Active to Passive Voice:
- Write eight examples of your own.
- Convert Sentences from Passive to Active Voice:
- Write eight examples of your own.

TENSES & VERBS

Write clear notes on:

- Present Tense (all four forms)
- Past Tense (all four forms)
- Future Tense (all four forms)

Write examples:

- Five sentences of each tense form (Present, Past, Future:
Simple/Continuous/Perfect/Perfect Continuous)

Identify the verbs in 10 sentences and label them as:

- Transitive / Intransitive
- Finite / Non-finite
- Main / Auxiliary

SENTENCE STRUCTURE & TRANSFORMATION

Joining Sentences Using Participles:

- Write what a participle is.
- Write what present and past participles are.
- Join eight pairs of sentences using present participles.
- Join eight pairs of sentences using past participles.

Joining Sentences Using Conjunctions:

- Write the types of conjunctions (coordinating, subordinating, correlative).
- Join ten sentences using appropriate conjunctions.

Write the rules for:

- Simple, Compound, and Complex sentences
- Changing simple → compound → complex (write six examples each)

Write the definition and examples of Clauses:

- Noun clause
- Adjective clause
- Adverb clause
- Write five examples for each type.

PUNCTUATION & EDITING

- Rewrite a paragraph of 6-8 lines using correct punctuation.
- Edit and improve a short paragraph for grammar, spelling, and clarity



We Speak English!

MATHEMATICS

Practice the following questions.

Exercise	Questions	Exercise	Questions
Ex:1.1	Q. 1-5	Ex:5.1	Q. 1-3
Ex:1.2	Q. 1-8	Ex:5.2	Q. 1-4
Ex:1.3	Q. 1-7	Ex:5.3	Q. 1-3
Ex:2.1	Q. 1-5	Ex:5.4	Q. 1-7
Ex:2.2	Q. 1-8	Ex:5.5	Q. 3-7
Ex:2.3	Q. 1-7	Ex:9.1	Q. 1-3
Ex:2.4	Q. 1	Ex:9.2	Q. 1-8
Ex:2.5	Q. 1-5	Ex:9.3	Q. 1-6
Ex:2.6	Q. 1-4	Ex:10.1	Q. 1-3
Ex:4.1	Q. 1-6	Ex:10.2	Q. 2-6
Ex:4.2	Q. 1	Ex:10.3	Q. 1-6
Ex:4.3	Q. 1-3	Ex:10.4	Q. 4-7



SCIENCE

A. REASONING-BASED SHORT QUESTIONS

1. Explain why living organisms cannot survive without a continuous supply of energy.
Support your answer with scientific reasoning.
2. A plant placed in a dark cupboard for 48 hours looks pale. Explain the scientific reason behind this change.
3. Why does the rate of a chemical reaction increase when the surface area of the reactants increases?
Give your explanation using particle theory.
4. A metal object feels colder than a wooden object in the same room. Explain why this happens in terms of heat transfer.
5. Two substances have the same mass but different volumes. Explain how this difference affects their density and whether they sink or float.
6. Why do some materials naturally conduct electricity while others do not?
Explain using the idea of electrons and structure.
7. A person running uphill gets tired more quickly than running on level ground. Explain the scientific reason for this.
8. Why does sound travel faster in some materials and slower in others?
Explain by comparing particle arrangement.
9. Explain why increasing the concentration of a reacting solution changes the reaction rate.
10. Cloudy weather sometimes makes the night warmer than clear skies. Explain this scientifically.

B. LONG, LOGICAL EXPLANATION QUESTIONS

1. Discuss how human activities can disturb natural cycles on Earth.
Give at least two cycles and explain the effects logically.
2. Explain why some structures made of the same element (for example, two forms of carbon) have completely different physical properties.
3. Describe how energy changes form in a situation where an object is dropped from a height. Use scientific reasoning to explain each stage.
4. Explain how scientists use models to better understand processes that cannot be directly observed.
Give an example of a scientific model and its usefulness.
5. Describe how scientific knowledge improves over time.
Give an example of how investigation and shared understanding change scientific explanations.

C. ANALYSIS & APPLICATION QUESTIONS

1. A student notices that when water evaporates from his skin, he feels cooler.

Explain scientifically why evaporation causes cooling.

2. A piece of aluminium does not rust easily, while iron rusts quickly.

Explain the scientific reason for their different behavior.

3. Two bulbs are connected:

Case 1: in a single loop

Case 2: each bulb has its own loop connected to the battery

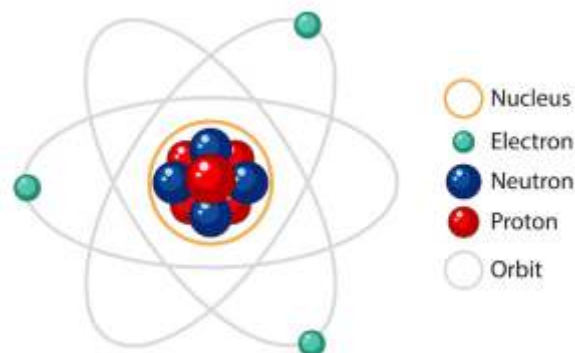
Explain why the brightness changes between the two cases.

4. A scientist increases the temperature of a reaction mixture.

Explain what happens to the speed of the reaction and why.

5. A mineral sample is extremely hard while another is soft, even though both are made of the same atoms.

Explain how the arrangement of atoms affects the properties.



D. INVESTIGATION & ENQUIRY TASKS (NO LAB NEEDED)

Design a simple investigation to compare the speed of evaporation of water in different locations of your home. Include:

- Aim
 - Method
 - Variables to control
 - How you would record results
 - Predicted conclusion
-
- Plan an investigation to find which material is the best conductor of heat using household items.
Explain how you will judge which material conducts heat faster.
 - Describe how you would test whether a substance is acidic, basic, or neutral using natural indicators available at home.
Explain your reasoning clearly.

E. HOME-BASED SCIENCE PROJECTS

Project 1 — Build a Closed Mini-Ecosystem (“Bottle Garden”)

Make a small sealed ecosystem using a transparent bottle, soil, small plant, and water.

Write a 3-4 page report describing:

- What scientific processes occur inside?
- How matter recycles
- How the system stays alive
- What changes you observe over 10-15 days

Project 2 — Reactivity Observation at Home (Safe Materials Only)

- Use vinegar, lemon juice, saltwater, and small pieces of metals (aluminum foil, iron nail, copper wire).
- Observe which combinations show faster reactions (bubbles, color change).
- Make a table + a detailed explanation based on electron loss and reactivity differences.

Project 3 — Make a Working Model of the Moon-Earth-Sun System

Use balls, a torch, and sticks to show positions and light reflection.

Prepare a short-written explanation of:

- How phases appear
- Why eclipses do not happen every month
- How the angle of orbit affects what we see

Project 4 — Create Your Own Parallel and Series Circuits (Low Voltage Only)

Using two AA batteries, wires, and small bulbs:

- Build both kinds of circuits
- Compare brightness, current paths, and resistance
- Write a conclusion explaining which type is safer and more efficient for home wiring

F. MONTH-LONG REFLECTION TASK

Maintain a "Summer Science Journal".

Write 10 entries during the month. Each entry should include:

- A scientific observation from daily life
- The question it makes you think of
- A logical explanation or hypothesis

Examples: fog formation, noise levels, heating appliances, melting ice, sunlight angle, etc.



INFORMATION COMMUNICATION TECHNOLOGY - ICT

Dear Learner,

Welcome to ICT Summer Homework – Grade 8.

Please follow the instructions below to access and complete your summer homework:

- Visit the provided link <https://tinyurl.com/SHW-ICT-GRADE-8> download all files in a folder and open the Index.html file.
- Upon first access, you will be prompted to enter your information. Please carefully enter your full name, admission number, and campus name.

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- After submission, your **dashboard** will be displayed.
- Navigate through each chapter, read the content thoroughly, and attempt the corresponding quizzes.

Note: After completing a chapter or before exiting, click the **Sync** button to save your progress.

Important: You may revisit chapters and quizzes at any time. If you choose to reset your progress, all previous data and records will be permanently deleted.

HISTORY

EAST INDIA COMPANY & PRE-1857 HISTORY

Recommended Videos (YouTube)

1. An animated documentary explaining how EIC expanded power over the Indian subcontinent.

▶ <https://www.youtube.com/watch?v=gP5tF9lualw>

2. Tipu Sultan and his resistance to British expansion.

▶ <https://www.youtube.com/watch?v=TlOGg9wMmKo>

3. Focuses on the rebellion, including Rani Lakshmibai (Jhansi) and other rebel leaders.

▶ <https://www.youtube.com/watch?v=FYEHtrt9Fzc>

4. covers early British conquests.

▶ <https://www.youtube.com/watch?v=VgLgM97bdhg>

5. East India Company

▶ <https://www.youtube.com/watch?v=syocq98pAy8>

Written Questions (to answer after reading book + watching videos)

1. Who was Tipu Sultan? What was his role in resisting the British expansion?

2. Who were the “Zamindars”? Why were they important under early British rule?

3. Who was the leader Ranjit Singh? What role did he play in the history of the subcontinent before 1850?

4. Who were the “Thugs” (or “Thugs of Hindostan”)? Briefly explain their historical significance.

5. Who was Lord Wellesley (or Lord Wesley – verify spelling)? What was his policy toward Indian states and how did it affect Indian resistance or cooperation?

6. Who was the Rani of Jhansi (Rani Lakshmbai)? Why is she remembered in Indian history?

7. What was the practice of “Sati”? Describe what it was and why it became controversial under British rule.

8. Who was Nana Sahib? What was his role in the events of 1857?

9. “How far was Indian resistance to British expansion successful before 1850?” – Write a short paragraph, giving two successes and two failures, with reasons.

10. “Describe the events that led to the War of Independence (1857-1858).” – Provide a chronological list (5-7 points) of main causes and immediate triggers.

11. “To what extent was the introduction of Western (British) education the most important reason for the War of Independence of 1857?” – Write a balanced short essay (about 8-10 lines), considering also at least one other major cause.



GEOGRAPHY

Based on: The Environment of Pakistan (Huma Naaz Sethi)

Student Instructions

Watch the suggested videos before answering. Keep your answers short (3-4 lines each).



PART 1 - FISHING & FISHING INDUSTRY

Videos to Watch

- “Fishing in Pakistan - Documentary” (Search on YouTube: Fishing in Pakistan Documentary - 5-7 mins)
- “How fishing supports communities - BBC Bitesize” (Search: BBC Bitesize fishing industry)

Written Tasks

1. Types of Fishing:

- Write down two types of fishing found in Pakistan (marine / inland) and give one example of each.

2. Why Fishing Is Important:

- State three reasons why fishing is important for Pakistan’s economy.

3. Problems Faced by Fishermen:

- List three problems faced by fishermen (for example: pollution, overfishing, poor boats).

4. Mini Creative Task - “A Day as a Fisherman”:

- In 5-6 sentences, imagine you are a fisherman in Karachi or Gwadar. Describe your day, the challenges, and what you enjoy.

PART 2 — MINERAL RESOURCES

Video to Watch:

“Minerals of Pakistan - Geography Guide” (Search: Minerals of Pakistan geography)

Written Tasks

1. Important Minerals:

- Write four major minerals found in Pakistan.

2. Mineral Map (Simple):

- Draw a small outline map of Pakistan and mark any three mineral areas (e.g., Salt Range, Saindak, Thar Coal).

3. Uses of Minerals:

- Choose two minerals and write one major use of each.

4. Short Thinking Task:

- Why is mining difficult in Pakistan? Give two short reasons.

PART 2 — MINERAL RESOURCES

Video to Watch:

“Natural Resources Explained for Students” (Search: natural resources for kids / students)

Written Tasks

1. Types of Resources:

- Define renewable and non-renewable resources (2-3 lines each).

2. Examples:

- Write three renewable and three non-renewable resources of Pakistan.

3. Importance of Natural Resources:

- Give three short points on why natural resources are important for a developing country.

4. Mini Illustration:

- Draw one renewable resource (e.g., solar, wind, water, forest). (Keep it simple — no coloring required.)

ISLAMIYAT

Q.1. Write a note on the following articles of faith:

- Belief in Tauheed
- Belief in Angels

Q.2. Read about the life and services of Ten Blessed Companions and write a note on life and services of any two Companions.

Q.3. Which prayers you offered each day. Bring the completed record sheet after Holidays.

اردو



- ☆ اپنی پسندیدہ استعمال کی اشیا میں سے کسی ایک کا اشتہار بنائیے۔
- ☆ جماعت میں آپ نے بہت سے قواعد کے موضوعات پڑھے اپنے من پسند عنوان کی (Powerpoint presentation) بنائیے۔
- ☆ اپنے خاندان میں کسی کا بھی انٹرویو کیجیے اور ان کی گفتگو سے آپ نے جو سیکھا ایک عبارت میں تحریر کیجیے۔
- ☆ دُنیا کے کسی دود لچسپ و عجیب عجائب گھروں کی معلومات پر مبنی ایک کتابچہ بنائیے۔
- ☆ اپنے محلے یا کمیونٹی کے لیے کوئی بھی فلاجی کام جیسے کم وسائل رکھنے والے بچوں کو پڑھانا وغیرہ کی سرگرمی کیجیے اور اُس کی مکمل رپورٹ تحریر کیجیے۔
- ☆ کہانیوں، پہیلیوں، خطوط، معلومات عامہ اور لفظوں کے کھیل پر مشتمل بچوں کا اخبار بنائیے۔



INTERNATIONAL GENERAL CERTIFICATE OF SECONDARY EDUCATION IGCSE-I



English: 0500

- Reading books is a best way to improve writing style and vocabulary. Following books are recommended to read during the summer break.

1. The Pearl
2. Metamorphosis
3. Lord of the flies

(Be ready to share the Book Reviews with the class after the summer break)

- Make a “Word Wall” of all the new words learned from the books you read and be ready to share the words with your class mates.
- Keep a journal to record your Holiday routine (at least 10 entries)
- Write 3 separate descriptive essays. (300 - 350 words). Topics are
 1. An experience of a life time
 2. A lost item found outdoors
 3. A place that gives one nightmares

Mathematics: 0580

- The only way to learn Mathematics is to do Math (Paul Halmos)
- Practicing the below mentioned exercises from Cambridge Lower Secondary Mathematics - Learner’s Book 9.
 1. Chapter 1 Exercise 1.1
 2. Chapter 2 Exercise 2.1
 3. Chapter 3 Exercise 3.1
 4. Chapter 4 Exercise 4.1

Islamiyat: 0493

- Write detail note on all six articles of Faith and five Pillars of Islam.
- Make a PowerPoint presentation on caliphate of Hazrat Ali (A.S) and Hazrat Usman (R.A).



Pakistan Studies: 0448

HISTORY

- Research make a power-point presentation of 14 Points Quaid.e.Azam.
- Research make a power-point presentation on the causes & effects the War of Independence.

GEOGRAPHY

- Research make a power-point presentation on water conservation.
- Research make a power-point presentation on the natural resources.

Urdu: 0539

مندرجہ ذیل عنوانات پر ۲۰۰ الفاظ پر مشتمل مضمون تحریر کریں۔

- موبائل فون اور انٹرنیٹ: فوائد اور نقصانات
- نوجوان نسل پر سوشل میڈیا کے اثرات
- آن لائن تعلیم: فوائد اور چیلنجز



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