



# **10 REASONS** TO BE A MILLENNIAL



#### Become a life-long learner

Learn how to learn using communication, research, self-management, collaboration and critical thinking skills.





#### Learn by doing and experiencing

Through the Millennium Education you learn to service the community and connect what you learn in the classroom to "real life".





#### The TME encourages critical thinking

It teaches you to analyse and evaluate issues, generate novel ideas and consider new perspectives.





#### Learn for understanding

Not just to memorise facts or topics and prepare for exams.



#### **Explore global** challenges

The TME helps you increase your understanding of the world by exploring globally signicant ideas and issues.

### Train yourself to:

organise and plan your work meet deadlines concentrate bounce back persist think positively.





#### Subjects are not taught in isolation

You are encouraged to make connections between subjects.



#### TME empowers you to develop your talents

Feel empowered to prove what you know and earn the Millennium Education Legacy

10



#### TME encourages internationalmindedness

The TME helps you critically appreciate your own culture and personal history, as well as the values and traditions of others.





#### TME prepares you for future education

Prepare yourself for the Millennial experience and get connected to the world of opportunities, diversity, access & scholarships

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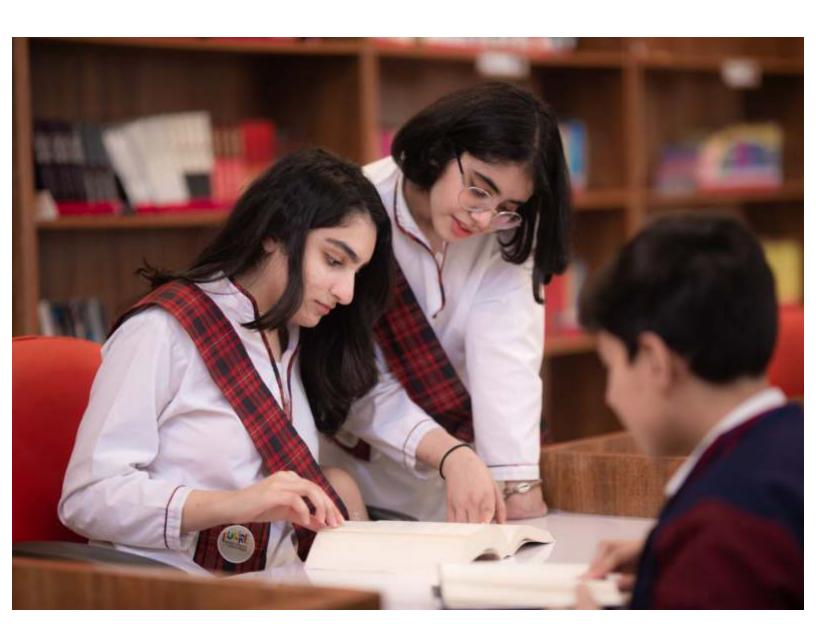
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#### **WELCOME**

#### **Department of International Qualifications, Curriculum & Assessments**

## Dear TME Learners and Millennials Welcome to the 2022-23 School Year

You must have had a delightful time relaxing with your family, friends, and relatives during the relatively Covid-free Eid Holidays.

We are elated to recognise the elevated potential of our learners. The Covid-19 Pandemic calamity has been well-fought and stoutly endured at all levels at TME, and with that, it has brought our learners' swift adaptation to the changing school dynamics and study routines.

It is gratifying that you, as learners, have grown intelligent and matured digitally. Your astute response towards your teachers, your digitally adapted presentations and assignments submitted online, your active class participation during short quizzes and formative assessments, and your improved pace of work within the assigned class time is a true reflection of your hard work and enviable stamina as our passionate Millennials.

The education pattern at TME is based off well-structured inquiry-based learning while celebrating national, cultural, religious, and international days broadening our Millennials' horizons and embedding life-long values in their lives. Learners are engaged in various projects and inquiries in and outside their classrooms to learn through nature-walks and tree plantations in botanical gardens, enjoying cooking experiences in the kitchen labs, puppetry, music, dancing, arts and crafts and so much more. These activities enhance our Millennials' physical, intellectual, social, and emotional growth.

We are very excited to welcome you to the New Academic Year, 2022-23 with new books, notebooks, readers, stationery, and a fresh new start to a brand-new school year. Let s begin this year with hope and positivity that we will not compromise on our academic standards, regardless of the challenges, and that we will make the best use of our time on the school premises that we have cherished and missed so much.

Wishing all of you a brilliant start to a scintillating academic year ahead

Regards,

#### Erum Alif

#### WELCOME

#### **Department of International Qualifications, Curriculum & Assessments**

## Dear Valued Parents, Welcome to the 2022-23 School Year

We thank you for placing your trust in TME for your child's future.

All schools have their special characteristics. What makes TME significantly stand out amongst other schools is its belief in ideology-driven education. We aim to provide a secure, nurturing, and rigorous learning environment for all our learners from K-12 to enable them to reach their full potential.

#### What Makes TME Different:

TME contributes to wider society by developing creative, problem-solving, & global-minded learners who will live and prosper in increasingly complex national and international environments. They are given opportunities to be part of authentic projects and activities so that they can develop an understanding of global issues related to the environment, sustainability, and responsible healthy living while exercising their entrepreneurial skills to build better futures in the real and digital communities in which they will live.

We at TME are proud to share that our learners make significant achievements and progress as they move from one tier to the next. We've been exceptionally successful in both exam results and university admissions, with former students going on to attend some of the world's top educational institutes.

#### Quality Assurance at TME

We, at TME, believe that outstanding teachers make outstanding students. We hold our teachers to the highest academic standards set by our dedicated TME education team and quality assured by the senior leadership team. Our teachers are committed and passionate and they never stop learning. Inservice training of our teachers by TME's indigenous training team, international training by Cambridge, regular, ongoing reviews, and self-assessments prepare our teachers adequately for continual refinement and optimization of curricula and teaching approaches, which help ensure that our students reach their potential.

#### **Communication with Parents**

As your child's greatest teacher and role model, it's vital that you become actively involved in their schooling. However, the means and pattern of communication between schools and parents have evolved over time. Parents express increasingly high expectations about the frequency and quality of interactions with teachers. We, at TME, have developed an in-house learning management system, titled Matrix, to facilitate parents. Matrix is a single space for parents to access and learn about their child's class timetable, R.A., class work, assessment record, attendance record, and fee. Through Matrix teachers involve every parent, regardless of their career demands, travel, and other complicating factors, with their child's learning and achievement in school.

With this brief review of all that makes TME stand out in the educational sector, we wish all our Millennials a successful start to the academic year 2022-2023.

#### Shehr Sultana Majeed

**General Manager** 

**Department of International Qualification, Curriculum & Assessments | DIQCA** The Millennium Education, Pakistan.

**ORIENTATION CLASSES** 

Orientation/Introductory classes for IGCSE I shall begin from the 15<sup>th</sup> of August 2022. Learners shall be allowed to attend all subject classes in order to make a careful decision regarding subject combination. These classes aim at

- Providing opportunity to learners, both Millennials and others, to visit and get to know about Cambridge IGCSE offered at TME
- Introducing subject groups offered at TME
- Mentoring and counselling learners about subject selection
- Giving orientation about Cambridge IGCSE curriculum
- Sharing success criteria with learners
- Providing learners opportunity to interact with the teaching staff
- Briefing learners about TME internal assessments and Cambridge International Examinations

Schedule of Orientation classes shall be provided by the respective School Head or Academic Coordinator.



## **CAMBRIDGE IGCSE SUBJECTS**

Cambridge IGCSE offers a very wide range of subjects to choose from and a variety of alternative routes for learners. Therefore, Cambridge IGCSE is highly suitable for a personalized approach.

Education is continually changing. CAIE keeps ahead by updating the entire Cambridge IGCSE suite regularly. Schools ensure implementation of the updates.

## Cambridge Languages

- English Language
- Urdu Language
- German Language

## Cambridge Sciences

- Physics
- Biology
- Chemistry
- Mathematics

- Mathematics Additional
- Information Communication Technology
- Computer Science

# Cambridge Humanities & Social Sciences

- Accounting
- Business Studies
- Economics
- Enterprise

- English Literature
- Islamiyat
- Pakistan Studies

## **SUBJECTS OFFERED AT TME**

The learners are encouraged to choose the subjects that they are interested in and want to pursue in the future. Learners, who are unsure of the career path they want to pursue, are encouraged to select subject group with an opportunity of pathway to a variety of fields. The learners are allowed to sit in different subject classes during the orientation week to be sure of the subjects they want to study in IGCSE. The following subject groups are offered at The Millennium Education.

## Compulsory Subjects

- English
- Mathematics
- Pakistan Studies
- Islamiyat
- Urdu

## Science Group

- Physics
- Chemistery
- Biology

## Computer Sciences Group

- Physics
- Chemistery
- Computer Sciences

## Social Sciences Group

- Business Studies
- Accounting
- ICT
- Art & Design
- Economics

## **SCHOOL REGISTRATION PROCESS**

After taking a one-week introductory classes, student shall be in a better position to decide the subject combination, with their parents' consent, in order to pursue the IGCSE programme.

 $Following \, IGCSE \, Registration \, Form \, has \, to \, be \, filled \, in.$ 

		ENNIUM IS SCHOOL
	'O' Level & 'IGCSE' Registration Form	
Student's Info	formation Date / /	
Student's Name:		
Father's Name:		
D . (D: 1)	D D M M Y Y Y	
Date of Birth	Nationality Nationality	
Permanent		
/ Postal		
Address		
Mobile:		
Tel (Res)		
Email:		
Achievement	:	
Achievement in	Roots Millennium Schools is offering the following subjects in 'O' Level & 'IGCSE'	7400
Achievement in	Roots Millennium Schools is offering the following subjects in 'O' Level & 'IGCSE'  (0610) 7. Business Studies (0450) 13. Information & (0417) 18. Comerce Communication	7100)
Achievement in  1. Biology 2. Chemistry	Roots Millennium Schools is offering the following subjects in 'O' Level & 'IGCSE'  (0610) 7. Business Studies (0450) 13. Information & (0417) 18. Comerce (0620) 8. Economics (0455) 17. Travel & Tourism (0620) 19. Travel & Tou	0471)
Achievement in  1. Biology 2. Chemistry 3. Physics	Roots Millennium Schools is offering the following subjects in 'O' Level & 'IGCSE'  (0610) 7. Business Studies (0450) 13. Information & (0417) 18. Comerce (7000) 19. Travel & Tourism (1000) 19. Sociology (0495) 14. Pakistan Studies (0448) 20. Environment (1000) 14. Pakistan Studies (0448) 10. Environment (1000) 14. Pakistan Studies (0448) 10. Environment (1000) 19. Sociology (0495) 19. Sociology (0495) 14. Pakistan Studies (0448) 10. Environment (1000) 19. Environment (1000) 19	, F
Achievement in  1. Biology 2. Chemistry 3. Physics 4. Mathematics	Roots Millennium Schools is offering the following subjects in 'O' Level & 'IGCSE'  (0610) 7. Business Studies (0450) 13. Information & (0417) 18. Comerce (70620) 8. Economics (0455) 7. Economics (0455) 7. Travel & Tourism (0455) 7. Particular Studies (0448) 7. Economics (0580) 10. Computer Sciences (0478) 15. English-1st Language (0500) 7. Evel & 'IGCSE'  19. Travel & Tourism (0455) 7. English-1st Language (0500) 7. Environment Managment (0580) 10. Environment Managment (0580) 15. English-1st Language (0500) 7. Evel & 'IGCSE'	0471)
Achievement in  1. Biology 2. Chemistry 3. Physics	Roots Millennium Schools is offering the following subjects in 'O' Level & 'IGCSE'  (0610) 7. Business Studies (0450) 13. Information & (0417) 18. Comerce (70620) 8. Economics (0455) 7. Economics (0455) 7. Particular Technology (0625) 9. Sociology (0495) 14. Pakistan Studies (0448) 20. Environment Managment (0580) 10. Computer Sciences (0478) 15. English-1st Language (0500) 16.	0471)

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# NOTEBOOK ESSENTIALS & MAINTENANCE GUIDELINES

The following notebook essentials must be pasted in our learners' notebooks, in the given order, so that they can refer to them regularly to understand and have command over Cambridge Examination requirements.

#### 1. Cover Page:

Subject name and subject code.

#### 2. First Page:

Pointer with relevant Term (First Term or Second Term).

#### 3. Second Page

List of topics for the terms.

#### **IGCSE-I**

#### First Term Syllabus

Cambridge Checkpoint:

- Unit 1: Art, Design and Fashion
   Workbook: Unit 1
   Word Smart Book 1: Words with A
   Descriptive and Narrative Writing
- 2. Unit 2: Modern Living
  Workbook: Unit 2
  Word Smart Book 1: Words with B & C
- Descriptive and Narrative Writing
  3. Unit 4: Division and Conflict
  Workbook: Unit 4

Word Smart Book 1: Words with D Descriptive and Narrative Writing

#### English 0500

- 4. Unit 5: Facing the Future
  Workbook: Unit 5
  Word Smart Book 1: Words with E
  Descriptive and Narrative Writing
- Unit 6: Making Choices
   Workbook: Unit 6
   Word Smart Book: Words with F

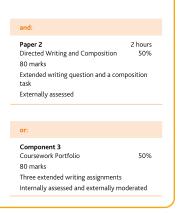
## 4. Third Page:

All candidates take:

#### Assessment overview

# Assessment overview All candidates take two papers. Paper 1, and one of Paper 2 or Component 3. Component 4 is optional and assesses speaking and listening skills. This component is separately endorsed and marks will not contribute to a candidate1/2s overall grade.

Reading 50% 80 marks Structured and extended writing questions Questions will be based on three reading texts Externally assessed





#### 5. Fourth Page:

#### Assessment objectives.

#### Assessment objectives

The assessment objectives (AOs) are:

#### AO1 Reading

Candidates will be assessed on their ability to:

- R1 demonstrate understanding of explicit meanings
- R2 demonstrate understanding of implicit meanings and attitudes
- R3 analyse, evaluate and develop facts, ideas and opinions, using appropriate support from the text
- R4 demonstrate understanding of how writers achieve effects and influence readers
- R5 select and use information for specific purposes.

#### AO2 Writing

Candidates will be assessed on their ability to:

- W1 articulate experience and express what is thought, felt and imagined
- W2 organise and structure ideas and opinions for deliberate effect
- W3 use a range of vocabulary and sentence structures appropriate to context
- W4 use register appropriate to context
- W5 make accurate use of spelling, punctuation and grammar.

#### AO3 Speaking and listening

Candidates will be assessed on their ability to:

- $\ensuremath{\mathsf{SL1}}\xspace$  articulate experience and express what is thought, felt and imagined
- SL2 present facts, ideas and opinions in a cohesive order which sustains the audience  $\frac{1}{2}$ s interest
- SL3 communicate clearly and purposefully using fluent language
- SL4 use register appropriate to context
- SL5 listen and respond appropriately in conversation.

#### 6. Fifth Page

#### Weighting of assessment objectives.

#### Weighting for assessment objectives

The approximate weightings allocated to each of the assessment objectives (AOs) are summarised below

#### Assessment objectives as a percentage of the qualification

Assessment objective Weighting in IGCSE 9	
AO1 Reading	50
AO2 Writing	50
AO3 Speaking and listening	Separately endorsed

#### Assessment objectives as a percentage of each component

Assessment objective	Weighting in components %		
	Paper 1	Paper 2 and Component 3	Component 4
AO1 Reading	80	20	0
AO2 Writing	20	80	0
AO3 Speaking and listening	0	0	100

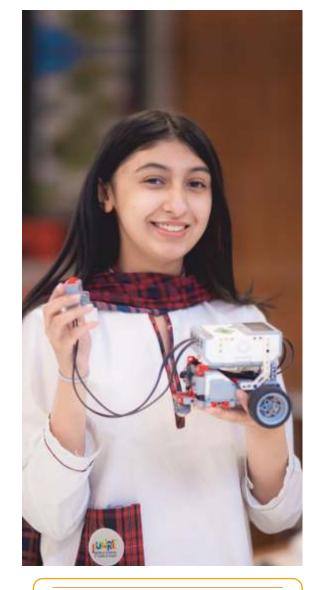
#### 7. Second Last Page

## Subject command words and/or glossary of terms.

#### Command words

The table below includes command words used in the assessment for this syllabus. The use of the command word will relate to the subject context.

Command word	What it means
Describe	state the points of a topic / give characteristics and main features
Explain	set out purposes or reasons / make the relationships between things evident / provide why and/or how and support with relevant evidence $$
Give	produce an answer from a given source or recall/memory
Identify	name/select/recognise



#### Glossary of terms for Paper 2

This glossary of terms for Paper 2: The Environment of Pakistan should prove helpful to teachers and candidates as a guide, although it is not exhaustive and the descriptions of meanings have been kept brief. www.news.as a yuvor, auruuyu ri s not exnaustive and the descriptions of meanings have been kept brief Candidates should appreciate that the meaning of a term must depend in part on its context. They should also note that the number of marks allocated for any part of a question is a guide to the depth of treatmen required for the answer.

	Add labels or notes or short comments, usually to a diagram, map or photograph, to describe or explain.
ssess	Weigh up the factors for and against a proposal and come to a judgement.

Work out a numerical answe

Explain what is similar **and** different about two things. For a comparison, two elements or themes are required. (Two separate descriptions do **not** make a comparison) Explain the differences between two things.

Explain the meaning of a term or phrase

Write about what something is like or where it is. Describe may be used in questions about resources (on a figure, a table, etc.) in the question paper (e.g., describe the rend of a graph, the location of an industry on a map, etc.). It may also be used when you need to describe something from memory (e.g., describe a doab, etc.). Describe is often linked with other command words such as name and describ name the feature and say what it is like, describe and explain (write about what it is like and give reasons for ...).

Write about the location of the required feature(s) as shown on the map(s) provided, by referring to: their relationship to other features shown, e.g. the provinces and rivers their density in particular areas.

Write about the location of the required feature(s) as shown on the map(s) provided, by referring to particular arrangements such as nucleated, linear, parallel, even spacing, etc. and, where relevant, locating the patterns in relation to the provinces and rivers, or any other features shown on the map(s) provides

Make a sketch showing the required features. Draw may be extended to draw a labelled diagram (draw a diagram with written notes to identify its features).

Evaluate

Explain what you think about something Explain in what way/to what extent/by what means/methods something

#### 8. Third Last Page

List of formulae (Mathematics)/test for aqueous solution and periodic table (chemistry)/symbols and units (Physics).

#### Symbols and units for physical quantities Candidates should be able to give the symbols for the following physical quantities and, where indicated, state the units in which they are measured. The list for the Extended syllabus content includes both the Core and the Supplement. Candidates should be familiar with the following multipliers: M mega, k kilo, c centi, m milli. Usual Usual unit symbol l, h ... km, m, cm, mm m2, cm2 volume m³, cm³ weight m, M kg, g mass mass time h, min, s density g/cm<sup>3</sup>, kg/m<sup>3</sup> speed km/h, m/s, cm/s acceleration acceleration of free fall acceleration acceleration of free fall ggravitational field g strength work done W, E J, kJ, MJ J, kJ, MJ W, kW, MW N/m<sup>2</sup> pressure mm Hg thermal capacity (heat C capacity) specific heat capacity c

List of formula	e
	1. ALGEBRA
Quadratic Equation	
For the equation	
	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
Binomial Theorem	
	$(a+b)^n = a^n + \binom{n}{1}a^{n-1}b + \binom{n}{2}ab^{-2-2} + \dots + \binom{n}{r}a^{n-r}b^r + + \dots + b^n$
where $n$ is a posit	ive integer and $\binom{n}{r} = \frac{n!}{(n-r)!r!}$
Arithmetic series	$u_n = a + (n-1)d$
	$S_n = \frac{1}{2}n(a+l) = \frac{1}{2}n\{2a + (n-1)d\}$
Geometric series	$u_n = ar^{n-1}$
	$S_n = \frac{a(1 - r^n)}{1 - r}  (r \neq 1)$
	$S_{\infty} = \frac{a}{1-r} \ ( r  < 1)$
	2. TRIGONOMETRY
Identities	$\sin^2 4 + \cos^2 4 - 1$
	$\sin^2 A + \cos^2 A = 1$ $\sec^2 A = 1 + \tan^2 A$ $\csc^2 A = 1 + \cot^2 A$
	$\operatorname{cosec} A - 1 \mp \operatorname{cot} A$
Formulae for $\Delta ABC$	
	$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$
	$a^2 = b^2 + c^2 - 2bc \cos A$
	$\Delta = \frac{1}{2} bc \sin A$
	<del>-</del>

#### 7. Last Page

Assessment record form.

TEST INDEX						
S. #	Date	Topic	Max. Marks	Obtained Marks	T.S.	P.S.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						



#### 5.1 Guidelines for Notebook Maintenance

- Notebook should be neatly covered.
- Name, class, and subject should be neatly and legibly written on top of the notebook.
- Index should be properly and neatly written in the given format (Sr. No./Date/Lesson or Topic/Remarks/Teachers sign) and should be regularly maintained.
- All the notebook essentials must be pasted in the notebook according to the given order.

#### Standard format for starting a new lesson should be ensured:

- → Date and Day should be mentioned on the left-hand side.
- → Lesson/Topic to be written on the first line.
- → All the class assignments and notes should have proper headings and sub-headings.
- Notebooks must be checked by the teacher regularly.
- Corrections must be done as per teachers' feedback and comments.





## **GUIDELINES FOR CLASS & HOME ASSIGNMENTS**

## **6.1 Class Assignments**

Our learners must be prepared to

- Be attentive and listen actively during the lesson.
- Have their stationery and notebooks ready.
- Select and stick to a method of note taking that works best for them.
- Rely on their own notes and ask questions to clear any ambiguities.
- Focus on the most important aspects of the material to avoid confusion.
- Take hand-written notes to focus on specific concepts.
- Use different methods to record information.
- Figure out which note taking system works for a specific subject or helps recall the information later.
- Label ideas and use key words.
- Specify relations between different points through indentations or arrows.
- Use graphical organizers for recording information to emphasize critical thinking and efficient understanding.
- Highlight important items with asterisks or draw circles or boxes around critical info.
- Use highlighters (of at least three colors) to highlight and separate information on the basis of importance or hierarchy.
- Use stick-ons /post-its to write extra but relevant information on and paste them in their notebooks and/or textbooks.
- Use indentation, underscoring and starring for indicating relative importance of items.
- Show uncertainty with a circled question mark.
- Leave plenty of white space for later additions. Skip lines. Leave space between main ideas.
- Omit descriptions and full explanations and keep notes short and to the point. Condense the material to be able to grasp it rapidly.
- Review notes periodically to get a complete picture of the ideas that were covered as this is the effective way to achieve lasting memory.

## **6.2 Home Assignments**

Our learners must be prepared to

- Always do their homework on time.
- Understand assignments clearly before leaving class, ask the teacher to clarify any ambiguity.
- Bring home materials to complete homework.
- Spend necessary time on homework each day.
- Submit their homework on time, neatly done.
- Make a list of difficulties faced and discuss with teacher.
- Find out what they have missed the day they return from an unplanned leave.
- Plan time properly for long-term assignments.
- Seek help from teachers, peers and parents if needed.

#### Note:

The duration of homework for IGCSE I & II, is 90 minutes per day and for IGCSE-III it is 2 hours per day.

## "WISHING OUR LEARNERS THE BEST OF LUCK FOR A SUCCESSFUL ACADEMIC YEAR!"



# "EDUCATION IS THE PASSPORT TO THE FUTURE, FOR TOMORROW BELONGS TO THOSE WHO PREPARE FOR IT TODAY."

- MALCOLM X



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MILLENNIUM ACADEMIC TECHNOLOGY

























