

MYP Proficiency Requirements Middle Years 5 (Grade 10)

Regarding mathematics, the MYP5 candidate student is expected to:

- Solve mathematical problems in familiar and unfamiliar situations
- Solve math word problems (real life applications)
- Generate mathematical formulas using the skill of recognizing patterns (numerical, geometrical, ...)
- Use appropriate mathematical language in written statements using correct terminology that guarantees communicating coherent mathematical lines of reasoning.

- Classifying numbers according to their types
- Reducing radicals and numerical expressions
- Performing operations on radicals
- Rationalizing the denominator of numerical expressions
- Estimating numerical expression including radicals
- Solving second degree equations
- Polynomials: Arranging and reducing polynomials | Performing operations on polynomials | Calculating the numerical value of a polynomial | Finding the root(s) of a polynomial | Factorizing polynomials
- Simplifying rational expressions
- Studying the relative positions between a line and a circle
- Tangents: Constructing tangents | Proving that a line is tangent to a circle at a certain point
- Calculating lengths of segments depending on properties of circles and lines
- Applying Thales' theorem in a triangle to calculate lengths
- Applying converse of Thales' theorem to prove parallel lines
- Making dilations (reductions and enlargements) to a certain figures
- Solving a system of two equations in two unknowns in: (1) algebraic ways | (2) analytical ways
- Solving problems using system of two equations in two unknowns
- Recognizing the equation of a straight line
- Plotting points and lines in an orthonormal system
- Studying the relative positions of two straight lines
- Calculating the distance between two points
- Finding nature of shapes (triangles and quadrilaterals) analytically
- Making proofs analytically

Using several visual, oral, or auditory age-appropriate prompts, the MYP5 candidate will:

- Read a text/paragraph aloud & respond to written comprehension questions



- Listen to and reflect on a global issue & discuss thoughts and ideas with the interviewer(s)
- Present a 5-minute proposition to solve or make change regarding the global issue discussed within immediate community
- Within 60-minutes, write age appropriate essay based on the prompt

To perform the above, the candidate must make best employment of the following: Organization | Sentence Fluency | Word Choice | Conventions *including: types of verbs, types of nouns and pronouns, proper use of adjectives and adverbs, passive & active, direct & indirect, if-conditionals, capitalization and punctuation* | Forming Questions.

Writing: Conventions | Writing process: *Brainstorming and Using diagrams to organize ideas* | Summarization & Paraphrasing | *(Introduction including Hook/Background Info./Thesis + Body Paragraphs including Topic Sentences/Major Details/Minor Details + Conclusion including restatement/Final thoughts)*

متطلبات مستوى الطالب الأكاديمي باللغة العربية

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- وتحديد نمط النص، ومؤشراته مع تدعيمها بشواهد من النص، وأدلة تظهر مدى تعمقه في فهم النص.
- الاستماع إلى مقطع فيديو يعرض حقيقة عالمية للنقاش فيها، ومعرفة مختلف آرائه وأفكاره في هذه القضية، واقتراح حلّ للقضية المعروضة.

المطلوب (الوصفي، السردى، الإيعازي، البرهاني) | تحليل الجوانب المتعددة للنص، دراسة نفسية، تحليل ربط العنوان بالمضمون | الأساليب الإنشائية | الحقل المعجمي | تحديد نمط النص ومؤشراته مع تدعيمه بأمثلة من النص | تحديد البنية السردية | تحديد نوع الجملة الإنشائية ووظيفتها وشرحها | المحسنات البديعية، التشبيه، والاستعارة، والكناية السجع، وشرح وظيفتها الفنية | وغيرها من أسئلة التحليل وإبداء الرأي المرتبطة بالنص.