



**NEFERTARI INTERNATIONAL SCHOOLS IN CAIRO**  
**AMERICAN DIVISION**  
**ADMISSION ASSESSMENT OUTLINE**  
**GRADE ELEVEN**

**MATHEMATICS**

- Quadratic formula and complex numbers
  - Find roots using factoring and quadratic formula
  - Simplify roots
- Trigonometry and angle
  - Trigonometric functions
  - Draw angle of rotation and find reference angle
- Functions and graph
  - Domain of function
  - Operations of functions
- Similarity
  - Proportional ratios
  - Similarity of triangles
  - Area and volume of 3-D shapes in similarity



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**ENGLISH**

**Reading Literature**

- Read and comprehend stories proficiently.
- Describe characters, settings, and major events in a story, using key details. Identify words and phrases in stories or poems that suggest feelings or appeal to the senses.
- Compare and contrast the treatment of similar themes and topics (e.g., opposition of good and evil) and patterns of events (e.g., the quest) in stories, myths, and traditional literature from different cultures.
- Determine the meaning of words and phrases as they are used in a text, including figurative language such as metaphors and similes.
- Cite strong and thorough textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.
- Determine and analyze the meaning of words and phrases as they are used in works of literature, including figurative and connotative meanings.
- Analyze the impact of the author's choices regarding how to develop and relate elements of a story or drama.
- Cite strong and thorough textual evidence to support analysis of what a text says explicitly as well as inferences and interpretations drawn from the text.
- Analyze in detail how an author's ideas or claims are developed.
- Determine an author's perspective or purpose in a text, and analyze how an author uses rhetoric to advance that perspective or purpose. Integration of Knowledge and Ideas.
- Determine two or more themes or central ideas of a text and analyze their development over the course of the text.

**Reading Informational Text**

- Identify the main topic and retell key details in a text.
- Describe and analyze relationships between illustrations and the text in which they appear (e.g. what person, place, thing, or idea in the text an illustration depicts).
- Describe the connection between a series of historical events, scientific ideas or concepts.
- Describe the relationship between a series of historical event, scientific ideas or concepts, or steps in technical procedurals in a text, using language that pertains to time, sequence, and cause/ effect.
- Distinguish their point of view from that of the author of a text.



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- Use information gained from illustrations (e.g. maps, photographs) and the words in text to demonstrate understanding of the text.
- Determine the main idea of a text and explain how it is supported by key details; summarize the text.
- Explain how an author uses reasons and evidence to support particular points in a text.

**Writing**

- Develop sophisticated arguments that evaluate multiple perspectives on a topic, balancing logical reasoning with rhetorical effectiveness.
- Write explanatory texts that demonstrate synthesis and nuanced analysis of complex information.
- Create narratives exploring universal themes, using style, pacing, and structure to convey subtle emotional and thematic depth.
- Refine writing through multiple stages of feedback, emphasizing tone, clarity, and precision.
- Conduct extensive research integrating quantitative and qualitative evidence from academic sources.
- Evaluate source credibility, bias, and context, documenting findings accurately.
- Use advanced transitions and varied syntax to ensure cohesion and flow.
- Publish and present writing digitally for academic and professional audiences.

**Language**

- Use advanced grammatical forms, including absolute and appositive phrases, for stylistic effect.
- Employ punctuation (colons, semicolons, dashes) to refine argument flow and enhance rhetorical impact.
- Vary syntax purposefully to create rhythm, emphasis, and tone.
- Use sophisticated transitions and modifiers to clarify complex relationships between ideas.
- Analyze and apply shifts in tone and style based on audience and purpose.
- Interpret and employ figurative language and idiomatic expressions for expressive effect.
- Expand academic and technical vocabulary through study of etymology and contextual analysis.
- Demonstrate precision and control in all aspects of written and spoken English.