



Grade 8 English Language Arts (ELA) Course Objectives Curriculum

Framework: Common Core Standards (CCS) **Instructional Materials:** HMH

Into Literature

Program Overview

This detailed guide provides parents and newly admitted students with a comprehensive breakdown of the specific reading and writing skills developed at **Grade 8**. Aligned with the Common Core Standards, our curriculum ensures that students progressively build mastery from early reading foundations to advanced literary analysis, rhetoric, and scholarly writing.

Reading Objectives:

- Examine an author’s craft, historical context, and stylistic choices across historical fiction and complex non-fiction texts.
- Analyze how differences in the points of view of the characters and the audience create effects such as suspense or humor.
- Evaluate the structure of specific texts, including whether the sentence structure, paragraphing, or sections contribute to meaning and style.
- Analyze a case in which two or more texts provide conflicting information on the same topic and identify where the texts disagree.

Writing Objectives:

Writing Focus: Story writing (narrative), sharing opinions (opinion/argumentative), and explaining facts (informative/explanatory)

- Compose sophisticated analytical essays using robust text evidence to support interpretations of literary texts.
- Write comprehensive argumentative pieces that evaluate and address opposing counterarguments.
- Develop advanced narrative compositions highlighting thematic depth and reflective elements.

New Generation International Schools
Grade 8 Mathematics – Admission Exam Study Guide

This study guide outlines the core mathematical topics, descriptions, and examples for the Grade 8 admission assessment.

1. Operations with Integers / Comparison of Integers

- **Description:** Performing addition, subtraction, multiplication, and division with positive and negative numbers, and comparing their values.
- **Example:** Evaluating $-8 + 5 = -3$ and determining that $-5 < -2$.

2. Distributive Property

- **Description:** Simplifying algebraic expressions by multiplying a single term across terms inside parentheses.
- **Example:** Expanding $-3(x - 4) = -3x + 12$.

3. Absolute Value of Integers

- **Description:** Finding the magnitude or distance of a number from zero on the number line regardless of sign.
- **Example:** Evaluating $|-7| = 7$ and $|12| = 12$.

4. Verbal and Algebraic Expressions

- **Description:** Translating verbal statements into mathematical expressions and evaluating terms with variables.
- **Example:** Writing "three more than four times a number" as $4x + 3$.

5. Solving Multi-Step Equations / Inequalities

- **Description:** Isolating variables through inverse operations across multiple steps in equations and inequalities.
- **Example:** Solving $2x + 5 = 13$ to find $x = 4$.

6. Classifying Polynomials

- **Description:** Categorizing algebraic expressions by the number of terms they contain (monomials, binomials, trinomials).
- **Example:** Classifying $3x^2 + 2x - 5$ as a trinomial.

7. Quadrants & Plotting Points

- **Description:** Locating coordinates and identifying the correct quadrant for ordered pairs on a Cartesian plane.
- **Example:** Plotting $(4, -2)$ in Quadrant IV.

8. Slope

- **Description:** Calculating the steepness and direction of a line using rise over run.
- **Example:** Finding the slope between points $(1, 2)$ and $(3, 6)$ as $\frac{6-2}{3-1} = 2$.

9. Perimeter & Areas of Shapes / Simple Composite Shapes

- **Description:** Calculating boundaries and surface areas for rectangles, squares, circles, and combined shapes.
- **Example:** Finding the area of a circle with radius $r = 3$ cm using $A = \pi r^2 \approx$

28.27 cm².

10. Fundamental Probability

- **Description:** Determining the likelihood of an event occurring as a ratio of favor-able outcomes to total possible outcomes.
- **Example:** Finding the probability of rolling an even number on a standard 6-sided

die ($\frac{3}{6} = \frac{1}{2}$).

11. Presentation of Data (Line & Dot Plot)

- **Description:** Displaying frequency and trends of data sets using line graphs and dot plots.
- **Example:** Interpreting temperature trends over a week using a line graph.

12. Measurements of Central Tendency

- **Description:** Calculating summary statistics including mean, median, mode, and range for a data set.
- **Example:** Finding the mean of 2, 4, 6, 8 by summing and dividing by 4 (result: 5).