

Grade 7 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 in Grade 7. 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:

- Navigate complex classic and contemporary literature organized by universal themes using close reading annotation strategies.
- Analyze how particular elements of a story or drama interact, such as how characters set the course of action or change over time.
- Determine an author's point of view or purpose in a text and analyze how the author distinguishes their position from that of others.
- Evaluate the advantages and disadvantages of using different mediums to present a particular topic or idea.

Writing Objectives:

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

- Write evidence-based arguments with clear claims, using credible sources and logical reasoning.
- Compose researched informative texts examining complex topics through the careful selection and analysis of content.
- Write well-paced narrative texts featuring developed characters and purposeful dialogue.

Grade 7 Mathematics – Admission Exam Study Guide

Basic Arithmetic Operations

- **Description:** Performing addition, subtraction, multiplication, division, and exponentiation with numbers, fractions, and decimals.
- **Example:** Evaluating 3^3 or calculating decimal operations like 4.5×2.1 .

Distributive Property

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

Order of Operations

Description: Evaluating mathematical expressions following the standard hierarchy

(Parentheses, Exponents, Multiplication/Division, Addition/Subtraction).

Example: Solving $5 + 2 \times (32 - 4)$.

Verbal and Algebraic Expressions

Description: Translating word phrases into mathematical expressions and evaluating algebraic terms.

Example: Writing "five less than twice a number" as $2x - 5$.

Ratio & Unit Rate

Description: Comparing quantities using ratios and determining rates per single unit of measure.

Example: Finding the unit rate if 150 miles are traveled in 3 hours (50 miles per hour).

Percent (Part / Whole)

Description: Solving problems involving percentages by establishing part-to-whole relationships.

Example: Calculating 20% of 80 ($0.20 \times 80 = 16$).

Geometry: Types of Angles and Shapes

Description: Classifying acute, right, and obtuse angles alongside 2D geometric shapes.

Example: Identifying a 90-degree angle as a right angle

Graphing Points in Quadrants of a Coordinate Plane

Description: Plotting and identifying ordered pairs (x, y) across the four quadrants of a Cartesian plane.

Example: Locating the point (-3, 4) in Quadrant II.

Geometry: Angles (Types & Measures)

- **Description:** Identifying and measuring acute, right, obtuse, and straight angles.
- **Example:** Classifying an angle measuring 110° as obtuse.

Perimeter & Areas of Shapes (Square / Rectangle)

- **Description:** Calculating the outer boundary distance and internal surface area for squares and rectangles.
- **Example:** Finding the area of a rectangle with length 7 cm and width 4 cm (28 cm^2).

Presentation of Data (Histogram, Line & Dots)

- **Description:** Organizing, displaying, and interpreting frequency data using histograms, line graphs, and dot plots.
- **Example:** Reading score frequencies from a histogram interval.

Statistics: Measures of Central Tendency

- **Description:** Calculating statistical values to summarize data sets, including mean (average), mode, median, and range.
- **Example:** Finding the median of the data set 4, 8, 12, 15, 20 (12).