



# Hellenic American Academy

Socrates Hellenic American Day School

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## EIGHTH GRADE LEVEL OBJECTIVES PRIMARY EDITION

### READING/LITERATURE

- Uses the dictionary to find the meaning of a word
- Recognizes that words have multiple meanings in context
- Recognizes and uses vocabulary related to specific content areas
- Uses structural analysis and context clues to determine word meanings
- Demonstrates knowledge of roots and affixes to determine word meanings
- States the main idea of a reading selection
- Sequences events of a selection
- Uses specific details to support a given statement
- Identifies speakers in a dialogue
- Predicts possible outcomes of a reading selection
- Compares and contrasts information in text
- Considers possible solutions to problems in a reading selection
- Identifies cause and effect relationships in a reading selection
- Selects reading material based upon individual interest
- Recognizes story elements: plot, conflict, setting, characterization, point of view, and theme
- Reads to understand and analyze various literary genres and forms (*drama, short stories, and essays*)
- Recognizes literary devices (*sarcasm, satire, assonance, internal rhyme*)



### WRITING/GRAMMAR

- Chooses meaningful prewriting strategies (*thinking, mapping, note-taking, webs, reading, dialogue*)
- Organizes ideas into paragraphs for essays, reports, and other writing activities
- Develops writing to include sufficient and meaningful details, support, and elaboration
- Writes stories creating and using: title, setting, plot, and characters
- Develops meaningful introductions and conclusions
- Identifies purpose and audience during writing
- Reads, rereads, reflects, and reconsiders own text for revision and self-editing
- Uses various genres to develop written expression
- Revises, dialogues, and edits with peers
- Supports text with facts and details
- Uses the thesaurus and dictionary
- Uses revision and editing strategies when writing
- Uses the following: sentence variety, teacher and peer suggestions, combining of sentences, teacher and peer conferences, and improved word choice
- Continues to use the library to develop library skills for research and to report information
- Edits for the correct use of punctuation, capitalization, grammar, and spelling
- Uses a variety of resources in the editing process: dictionary, spell-checking devices, thesaurus, and computer thesaurus
- Recognizes and uses parts of speech correctly
- Eliminates fragments and run-on sentences
- Varies sentence style and structure in writing
- Uses clauses, modifiers, and appropriate transitional words
- Uses and punctuates dialogue correctly
- Uses gerunds, participles, and infinitives
- Uses advanced subject/verb agreement
- Uses commas with phrases and clauses
- Demonstrates appropriate speaking behavior articulate rate, volume, and body language
- Recognizes purposes of oral messages (*convey information, entertain, give directions, persuade*)
- Makes inferences and identifies different points of view in oral messages
- Participates in both large and small group discussions
- Communicates ideas and feelings appropriately in formal and informal situations
- Recalls orally, the specific and significant details of a passage
- Enjoys listening to and sharing writing with a variety of audiences

## 8th GRADE LEVEL OBJECTIVES PRIMARY EDITION

### SPELLING

- Spells the 8th grade high frequency word list correctly
- Knows and uses all 8th grade spelling rules and spelling generalizations
- Applies spelling rules in written work
- Uses a variety of resources to verify standard spelling (e.g.: *dictionary*)

### STUDY SKILLS

- Utilizes content area reading strategies (ex: graphic organizers in narrative and informational reading and writing)
- Maintains note-taking skills
- Uses an assignment notebook
- Uses outlines for note-taking in various content areas
- Uses maps, charts, graphs, and diagrams when appropriate
- Uses summarizing, bibliographies, skimming, and paraphrasing for study

### MATHMATICS

#### 1. Computation

- a) Know absolute value, order of operations, and exponents for whole numbers, fractions, decimals, integers.
- b) Be able to perform all four operations on whole numbers, fractions, decimals, and integers with and without a calculator.

#### 2. Problem Solving

- a) Be able to perform multi-step routine problems.
- b) Be able to identify the operation in a hidden question.
- c) Be able to perform the following non-routine process problem solving strategies: guess & check, make a list, logic, patterns, simulation, make a table, working backwards, simplify the problem, sequencing, Venn diagrams, drawing.

#### 3. Ratio / Proportion / Percent

- a) Be able to apply ratios.
- b) Know percents greater than 100 and less than 1.
- c) Be able to solve proportions: distance, rate, time, similar figures,  $p=r*b$  types, discount, commission, tax, circle graphs, and interest.

#### 4. Measurement

- a) Be able to use both customary and metric units to solve problems relating to mass, capacity, and length.
- b) Be able to solve perimeter, area, circumference, and volume problems using formulae.
- c) Be able to convert within the customary and metric systems.
- d) Be able to compute perimeters and areas of irregular plane figures and surface area and volume problems of three-dimensional figures.

#### 5. Algebra

- a) To be able to evaluate and simplify expressions.
- b) To be able to do graphing on a number line.
- c) To be able to solve 1 and 2 step equations with flow charts and/or algebraic structures.
- d) To be able to graph in 4 quadrants both linear and non-linear functions.
- e) Be able to solve and graph inequalities on a number line.

#### 6. Geometry

- a) Know polyhedron and angles of regular polygons, diagonals, special angles such as: corresponding, complimentary, supplementary, adjacent, central, congruent.
- b) Be able to recognize perpendicular, transversal, and skew lines.
- c) Be able to make a three-dimensional model from a two-dimensional description.

#### 7. Data collection

- a) Know sample space, relative frequency and be able to make predictions.
- b) Be able to interpret a line plot, box and whisker plot.
- c) Be able to use measures of central tendency.

#### 8. Number sense

- a) Be able to use estimation techniques.
- b) Be able to interpret solutions.
- c) Be able to express quotients in different ways.
- d) Be able to solve problems mentally.

## 8th GRADE LEVEL OBJECTIVES PRIMARY EDITION

### **SOCIAL STUDIES** (*cont'd...*)

#### ***United States History (Pre Columbian – Westward Expansion)***

- The First Americans (Prehistory to A.D. 1500)
- European Exploration of the Americas (1000-1800)
- English Colonization of North America (1500-1760)
- Developing American Ways of life (1630- 1770)
- Moving Toward Revolution (1750-1775)
- The American Revolution (1775-1783)
- Experimenting with Self- Government (1776-1786)
- Creating a Federal Government (1787-1791)
- The New Republic on Trial (1788-1800)
- The Age of Jefferson (1800-1815)
- A Nation Emerges (1785-1840)
- The Age of Jackson (1824-1840)
- An Age of Reform (1800-1860)
- An Age of Expansion (1818-1860)
- The Growing Crisis (1848-1861)
- The Civil War (1861-1865)
- The Agony of Reconstruction (1865-1900)

### **SCIENCE**

#### ***Astronomy***

- Demonstrate how Earth moves in space
- Explain what causes the cycle of seasons on Earth
- Identify what determines the strength of the force of gravity between two objects
- Describe two factors that keep the moon and Earth in orbit
- Explain what causes the phases of the moon
- Describe solar and lunar eclipses
- Identify what causes the tides
- Describe features found on the moon's surface
- Identify some characteristics of the moon
- Explain how the moon formed
- Explain how rockets were developed
- Demonstrate how a rocket works
- Identify the main advantage of multistage rocket
- Describe the space race
- Discuss the Apollo program
- Distinguish between the roles of space shuttles and those of space stations
- Identify features that space probes have in common
- Explore how condition in space are different from those on earth
- Identify the benefits that space technology has provided for modern society
- Identify the geocentric and heliocentric systems
- Recognize how scientists such as Copernicus, Galileo, and Kepler contributed to the acceptance of the heliocentric system
- Identify the objects that make up the solar system
- Name the three layers of the sun's interior
- Identify the three layers of the sun's atmosphere
- Describe the features that form on or above the sun's surface
- State the region of the electromagnetic spectrum
- Explain what telescopes are and how they work
- Identify where most large telescopes are located
- Explain how stars are classified
- Describe how astronomers measure distances to the stars
- Explain how a star forms

## 8th GRADE LEVEL OBJECTIVES PRIMARY EDITION

### SCIENCE (*cont'd...*)

#### ***Astronomy***

- Identify what determines how long a star will live
- Describe what happens to a star when it runs out of fuel

#### ***Motion Force and Energy***

- Determine when an object is in motion
- Calculate an object's speed and velocity
- Demonstrate how to graph motion
- Describe what graphs are used
- Describe the motion of an object
- Describe how the theory of plate tectonics explains the movement of earth's landmasses
- Calculate the speed at which earth's plates move
- Describes the motion of an object as it accelerates
- Calculate acceleration
- Describe what graphs are used to analyze the motion of an accelerating

#### **Chemical building Blocks**

- Identify the properties that are used to describe matter
- Define elements and explain how they relate to compounds
- Describe the properties of a mixture
- Differentiate between weight and mass
- Identify the units used to express the amount of space occupied by matter
- Describe how the density of a material is determined
- Describe what physical change is
- Describe what chemical change is

### TECHNOLOGY

#### ***Computer Operations***

- Practices responsible use of technology systems information & software.
- Understands the legal, ethical, cultural & societal issues related to technology.
- Demonstrates a sound understanding of the nature and operation of technology systems (Windows/Macintosh).
- Defines and uses proper technology vocabulary.
- Access network services in order to retrieve access & save data.
- Understands the copyright laws regarding software

#### ***Word Processing Skills***

- Uses features within a word processing document: spell check, thesaurus, copy, cut, paste, fonts, size, style, tabs, and margins
- Uses page formatting techniques (*tabs, headers, footers, margins...*)
- Manipulates graphics in word processing documents
- Integrates the drawing components within a word processing document

#### ***Graphics***

- Creates documents using the concept of desktop publishing
- Uses draw and paint layer tools and features to enhance graphics
- Access graphics from a variety of sources (*web, CD ROM, hard drive...*)

#### ***Keyboarding***

- Applies "home row" concepts at all times
- Uses correct keyboarding skills while increasing speed & maintaining accuracy

#### ***Spreadsheet***

- Creates and uses a spreadsheet to process data & report results

#### ***Database***

- Uses information to create a database
- Manipulates information to analyze data within a database

## 8th GRADE LEVEL OBJECTIVES PRIMARY EDITION

### TECHNOLOGY (*cont'd...*)

#### **Multimedia/Hypermedia**

- Accesses and browses the World Wide Web for information, under staff supervision
- Develops a multimedia presentation

### PHYSICAL EDUCATION

- Increases in strength, endurance, power, flexibility, agility, and speed through participation in the ***Fitness Program***.
- Finds enjoyment and social interactions through co-ed participation.
- Displays proper sportsmanship and develops good teamwork.
- Develops an awareness of the body's capabilities and each individual's performance level.
- Continues skill development in individual activities
- Continues skill development in team activities

### ART

- Produces, interprets, and identifies the use of line, shape, color, texture, value & space in selected art work.
- Develops oral and written critiquing skills.
- Recognizes the unique characteristics of the elements and principles of art through viewing and producing works of art.
- Understands the characteristics of a variety of basic art materials and techniques through producing an assortment of original art work.
- Develops individual visual expression skills through the study and production of a variety of original two and three dimensional art works.
- Develops a working vocabulary of art materials, techniques, and processes.
- Demonstrates knowledge of selected media tools.
- Gains an understanding of the art work of other cultures & societies throughout history.

*The grade level objectives listed in this brochure represent the course of study for this grade and provide a general focus for the instructional program in your child's grade. The purpose of this grade level brochure is to provide parents with an overview of the content objectives that represent the school's core curricular programs for each grade level. Most students are expected to demonstrate proficiency of these objectives by the end of the school year. We believe that when the school and home form a partnership, our children will have the best opportunity to learn and succeed in school. We encourage parents to familiarize themselves with these objectives. If you have questions about your child's program, please contact your child's teacher or principal for more information.*