

# Academic Standards for The Classical Academy



## Fifth Grade

### **History: Ancient History (5,000 B.C. – 476 A.D.)**

*The Story of the World*, Volume 1, by Susan Wise Bauer; *Early Times: The Story of Ancient Egypt*; *Early Times: The Story of Ancient Greece*; *Early Times: The Story of Ancient Rome*; *Oxford First Ancient History* (Burrell)

The student will:

- Articulate an understanding of the purpose of the study of history through writing a short personal history (brief autobiography)
- Communicate an understanding of Nomads and the early people as a society that did not stay in one place indefinitely.
- Identify the geographical area of the Fertile Crescent and articulate the importance of this area in early history
- Compare the events of the three periods in the Kingdom of Egypt
- Evaluate the geographic development of Egypt and the surrounding geographical areas leading to the development of Rome
- Compare the 10 commandments, Code of Hammurabi, Sayings of Confucius and Teachings of Jesus as early codes of conduct.
- Describe the historical importance of Egyptian Pharaohs, pyramids, mummification and burial rituals of the early Egyptians.
- Compare and Contrast the geography and cultural characteristics of Ancient India, Ancient Europe and Ancient Crete and Minoan Culture.
- Analyze the works of Homer through literature.
- Identify the development of Greece through geographical and historical developments.
- Identify Greek city-states and the further developments as a result of the Persian Wars.
- Evaluate the writing and thinking of Greek philosophers and their contributions to literature and the Greek society.
- Compare and Contrast the ideas of Greek religion and the difference between polytheism and monotheism.
- Analyze the events, rulers, and other influences of Ancient Rome, to include: the Roman republic, Roman emperors and the growth of the Roman Empire.
- Acquire and communicate an understanding of the importance of Virgil and Mark Antony.

### **Science: Biology**

In depth study of : Classification, five kingdoms of living things, vertebrate and invertebrate anatomy, animal and plant cells, microscopic organisms, anatomy, systems of the body

# Academic Standards for The Classical Academy



The student will:

- Articulate the science of Biology as the study of living things.
- Demonstrate an understanding of the five kingdoms of living things through classifying plants and animals based on physical characteristics.
- Compare and contrast vertebrates and invertebrates based on structural analysis of the animal.
- Diagram and label the following:
  - Parts of a plant
  - Parts of a flower
  - Reproduction of seeded and non-seeded plants
  - Plant Cell
  - Animal Cell
- Compare and contrast the major categories of biomes (aquatic, desert, forest, grassland, and tundra).
  - Identify and describe the sub-biomes of each category.
  - Describe each biome in terms of flora, fauna, climate, and geography.
- Identify and define the grammar of ecology.
  - Compare and contrast producer, consumer, and decomposer.
  - Compare and contrast herbivore, carnivore, and omnivore.
  - Diagram food chains and food webs.
  - Define ecosystem, community, population, species, habitat)
- Compare and contrast genetic and acquired traits
- Diagram a Punnett square to demonstrate a basic understanding Mendelian genetics.
- Diagram the basic structure of DNA and RNA
- Compare and contrast the functions of DNA and RNA in the cell.
- Describe and diagram cellular replication (mitosis).
- Memorize the chemical reactions of photosynthesis and cellular respiration.
- Communicate the basics of the systems of the body to include the skeletal, muscular, nervous, circulatory, sensory, digestive, and respiratory systems.
  - Identify the major tissues types
  - Composition of human blood
  - Major bones of the human skeleton
  - Major organs of each body system
  - Different types of muscle

## **Mathematics – (Saxon 7/6)**

The student will:

- Develop mastery of mathematical vocabulary
- Understand place value to the millions to include decimals
- Apply mathematical rules, formulas and vocabulary to successfully solve word problems and computations
- Demonstrate understanding of place value by rounding and estimating

# Academic Standards for The Classical Academy



- Multiply multi-digit numbers, including decimals
- Divide using the process of long division, including decimals in the dividend
- Manipulate fractions (including improper fractions and mixed numbers) to successfully:
  - Add & Subtract (common and non-common denominators)
  - Multiply
  - Divide
  - Express as a decimal
  - Express as a percent
- Convert and manipulate units of measure
- Express equivalent decimals, fractions and percents
- Compare two or more things as a ratio
- Manipulate ratios to determine equivalent ratios
- Execute order of operations rule to solve mathematical equations
- Manipulate numbers in a data set to determine mean, median and mode
- Interpret and communicate data using graphs
- Calculate rate
- Analyze geometrical shapes in order to:
  - Find perimeter
  - Find area
  - Find degrees of various angles
  - Find volume (liquid and solid units of measurement)

## **Reading**

The student will:

- Practice reading strategies and concepts through Daily Reading Practice activities
- Memorize and recite a variety of poetry and literary excerpts
- Identify the difference between fiction and non-fiction text
- Read and comprehend legends, myths, historical fiction and poetic truth
- Define and analyze vocabulary in and out of context
- Master dictionary and thesaurus skills
- Read aloud fluently and with expression

## **Literature**

The student will:

- Actively participate in the reading of the following works of literature:
  - *The Golden Bull* (Cowley)
  - *The Golden Fleece and the Heroes Who Lived Before Achilles* (Colum)
  - *Black Ships Before Troy* (the story of the Iliad)(Sutcliff)
  - *The Wonderings of Odysseus* (the story of the Odyssey)(Sutcliff)
  - *The Bronze Bow* (Speare)
  - *A Single Shard* (Park)

# Academic Standards for The Classical Academy



- *Julius Caesar* (No Fear Shakespeare)
- Articulate an understanding of historical and virtuous emphasis within literature
- Actively listen to teacher read-a-louds of classic literature for modeled fluency, expression and vocabulary enhancement
- Read-Aloud selections may include:
  - *Maroo of the Winter Caves* (Turnbull)
  - *Malu's Wolf* (Craig)
  - *The Golden Goblet* (McGraw)
  - *Watership Down* (Adams)
  - *White Fang* (London)—if time
  - *The Prince and the Golden Ax* (Lattimore)—if time
  - *The Roman Conspiracy* (Mitchell)—if time
  - *Cleopatra* (Stanley)—if time
  - *The Broken Tusk* (Krishnaswami)—if time

## **Writing and Grammar**

The student will: (Classical Writing: Homer, progymnasma narrative)

- Demonstrate understanding of spelling rules and mastery of phonograms through weekly spelling lessons and tests
- Articulate understanding of vocabulary acquisition through writing
- Diagram sentences to demonstrate mastery of knowledge of:
  - Verbs, nouns, pronouns, adjectives, prepositions, conjunctions, interjections and adverbs
- Manipulate and rewrite sentences using the “six sentence shuffle” which includes:
  - Paraphrasing, synonym substitution, grammatical change, addition (adding words, dialogue, setting change etc.), subtraction (removing words, dialogue, setting change, etc.), same diagram – new idea
- Use exemplar text for:
  - Copy work
  - Dictation
  - Summarizing sentences
  - Hierarchical outlining
  - Scenes and acts
  - Defining paragraph types
  - Multi-scene stories
  - Telling a story backwards
  - Editing a narrative for credibility, concision and clarity
  - Invention, arrangement and style

## **Geography**

- Understand and communicate the ancient Mesopotamian geography as it relates to global world geography

# Academic Standards for The Classical Academy



- Draw and study maps of ancient Mesopotamia and Greek and Roman Empires
- Articulate the geographical progression of ancient Mesopotamia and the Greek and Roman Empires.
- Identify and label ancient geographical land and water masses from memory