

## **Eighth Grade**

### **MATH**

#### *REVIEW*

- Solving basic algebraic equations
- Compute all operations with Integers
- Understanding and using rates and ratios
- Prime and composite numbers
- Making assumptions and predictions from graphs
- Analyze characteristics and properties of two- and three-dimensional geometric shapes
- Basic concepts of probability

#### *INTRODUCE*

- Solving expressions and equations with parentheses, like terms, and exponents
- Using box-and-whisker plots to measure central tendency
- Place and interpret trend lines on scatter plots
- Rational and Real Numbers
- Develop probability of compound events
- Relate slope and y-intercept to graphs and linear equations
- Solving Quadratic and other Nonlinear Equations
- Graphing Systems of Equations and Inequalities
- Sine and Cosine Ratios
- Precision and Significant Digits
- Writing and Simplifying Polynomials
- Reflectional and rotational symmetry
- Finding surface area and volume of pyramids, cones, and spheres
- Using Scale to find Area and Volume after Dilations

#### *MASTER*

- Use models, tables, and graphs to represent algebraic relationships
- Graphing linear equations
- Fundamental geometric concepts and formulas for perimeter, area, and volume
- Pythagorean Theorem and relationships
- Solving and writing two-step equations and inequalities
- Using proportions to find measurements of similar figures
- Reading and making graphs
- Solving proportions with unit rates

- Percent applications

## **LITERATURE**

### *REVIEW*

- Read for more than one purpose (i.e. research, study, personal)
- Distinguish biased writing from unbiased
- Define and identify the various elements of literature (i.e., rhyme, imagery, symbolism, foreshadowing, personification, figures of speech, alliteration, tone, irony, illusion, etc.)
- Identify the plot of a literary work: conflict, climax, conclusion
- Identify the setting of a literary work
- Identify the main characters of a literary work and how they are involved in the conflict/resolution of the story
- Define the meaning and identify the protagonist and antagonist in a piece of literature
- Identify and relate the theme of a literary work
- Define and comprehend a literary work's exposition: place, time, and mood /tone
- Use formal thinking skills and reading strategies by addressing the concepts of: activating schema and building background information, predicting and confirming, drawing conclusions, making inferences, recognizing text differences, and summarizing
- Recall sequence of events and details in a story
- Clarify authors viewpoint/perspective and purpose
- Summarize and paraphrase what is read
- Context clues to determine word meanings
- Identify and define key words in a literary analysis that help identify appropriate responses: define, compare/contrast, describe, define, explain, and interpret

### *INTRODUCE*

- Use personal experience and other sources to clarify issues
- Consider audience when summarizing and paraphrasing
- Define and comprehend induction and deduction
- Compare and contrast texts in formal writing
- Discuss how different elements of an individual work relate to each other
- Discuss how ideas and elements in a literary work relate to larger issues in society, politics, or economics

## *MASTER*

- Develop outlines for items read
- Recognize different types of writing techniques used to express and emphasize viewpoints and purpose
- Predict information that will appear in a text (i.e. an answer to a question, a reason, a problem for a character, or a solution to a problem)
- Vary reading techniques according to purpose and content
- Locate and interpret information in reference sources
- Identify the narrator of a literary work
- Use skimming and scanning techniques to quickly find information
- Employ deductive reasoning skills to predict outcome and draw inferences
- Solve analogies to build critical thinking skills and enhance vocabulary development

## **ENGLISH**

### *REVIEW*

- Name, recognize, and comprehend the 4 principle parts of a verb.
- Identify and use the appropriate tense of a verb (present, present perfect, past, past perfect, future, and future perfect)
- Identify and use appropriately in writing active and passive voice
- Identify and use infinitives and infinitive phrases
- Identify and use appositives and appositive phrases
- Identify adjective and adverb subordinate clauses
- Identify nominative and objective case of pronouns
- Identify and correct errors in pronoun form
- Identify special problems in pronoun usage
- Recognize subordinating conjunctions
- Define modifiers: one word, phrases, and clauses
- Identify and use regular and irregular adjective and adverb comparisons
- Comprehend placement of modifiers in sentences (prepositional phrases, participial phrases, and adjective clauses)
- Revise sentences for clear pronoun reference
- Combine sentences, revise "stringy" and "wordy" sentences, and vary sentence transitions and structure in writing
- Identify and use appropriately brackets and dashes as punctuation
- Able to use parenthetical documentation and works cited in a research paper
- Write, use, and punctuate dialog properly
- Identify and use demonstrative adjectives

- Identify and use as modifiers: adjective vs. adverb prepositional phrases
- Identify and use subject complements: predicate nominatives and predicate adjectives
- Identify and use appropriately semicolons, colons, hyphens, and parenthesis
- Learns to spell and define a prescribed list of words
- Grasps writing strategies and their applications
- Utilize reference material for research and writing
- Avoid the use of tense shifts and double negatives in sentences and paragraphs
- Understand word relationships in analogies
- Make and use analogies in writing
- Learn to use writing to express an opinion
- Comprehend and utilize MLA (Modern Language Association) standards for writing
- Write 5 paragraph essays: develop a thesis statement, write a proper introduction and conclusion, develop a 3 paragraph body to support the thesis
- Utilize writing strategies with narrative, descriptive, expository, story, and persuasive writings
- Proofread and revise one's own writing for grammar, mechanics, and content
- Employ deductive reasoning and use context clues
- Learn note taking skills and its importance for studying, research, and writing.

### *INTRODUCE*

- Define and identify progressive forms of verbs
- Distinguish between essential and non-essential clauses
- Define gerunds, gerund phrases, and their functions
- Identify and write gerunds and gerund phrases as subjects or direct objects (nouns)
- Encode, spell, and sort words according to their Latin prefixes, roots, and/or suffixes
- Encode, spell, and sort words according to their Greek combining form

### *MASTER*

- Identify primary parts of speech (i.e. nouns, pronouns, verbs, articles, adjectives, adverbs, interjections, and conjunctions)
- Identify and handle definite and indefinite articles easily in speaking and writing
- Understand the standard usage rules of Standard English

- Define independent clauses
- Identify and use personal, reflexive, intensive, demonstrative, indefinite, interrogative, and relative pronouns
- Identify, punctuate, and write declarative, interrogative, imperative, exclamatory, and compound sentences
- Correct errors in the form, use, and placement of modifiers
- Identify and use pronouns that agree with their antecedents
- Identifies and writes comparative and superlative forms of adjectives and adverbs in sentences
- Identify adverbs and understand their position in sentences
- Identify and use objects of verbs: direct and indirect objects
- Identify, write, and properly punctuate compound and complex sentences.
- Identify and corrects fragments and run-on sentences
- Demonstrates appropriate use of apostrophies, underlining, and commas in sentences
- Identify and use verb types: action verbs, irregular vs. regular verbs, linking verbs, and transitive vs. intransitive
- Write compare and contrast, instructions, and persuasive compositions
- Demonstrate understanding and ability to use the parts of a book (i.e., Title page, copyright page, table of contents, index, glossary)
- Correctly place adjectives and adverbs in their writing
- Write a unified paragraph which has a clearly stated purpose and is audience appropriate
- Utilize transition words to ensure sentence fluency in paragraph, essay, and research report writing
- Comprehend entemologies for dictionary entries and the significance of root words for defining word meanings
- Grasp library organization and know reference material use
- Make and punctuate a bibliographic reference
- Write complete a research paper according to MLA standards including note cards, outline, body, and works cited

## **SCIENCE**

### *REVIEW*

- The God has created a mysterious and complex universe
- Use of microscopes and other lab materials
- Explore the wonder of God's creation
- Creating, reading, and interpreting different graphs

### *INTRODUCE*

- Writing complete scientific journal with data charts for experiments
- Exploring God's creation as it pertains to Physical Science

### *MASTER*

- Describe materials and matter and their building blocks
- Understand general properties of matter
- Create an understanding of chemistry – acids, bases, and solutions
- Describe and discuss the branches of chemistry
- Describe reactions of certain chemical families
- Explain electricity and magnetism
- Work with and illustrate motion, sound, light and simple machines

## **SOCIAL STUDIES/US HISTORY**

Grade eight covers from the Civil War to the present.

### *REVIEW*

- Understand different purposes and skills of map studies
- Compare and summarize information in tables, graphs, and charts
- Recognize we are creating history as we live

### *INTRODUCE*

- *Participate in discussions of current events*
- *Understand the history, geography, and development of the United States following the Civil War*

### *MASTER*

- *Recognize the important details in note taking from discussion and text*
- *Understand the relationship of United States history and how it affects the events of today*
- *Understand that geography of an area plays key roles in the lives and history of the people who lived and worked there*
- *The goals of the United States constitution*

## **CHRISTIAN LEARNING**

Through the Word and Spirit of God, children may

### *REVIEW*

- Know God, especially His seeking and forgiving love in Christ
- Respond in faith and grow into Christian maturity
- Students see themselves as reconciled, redeemed children of God and individual members of Christ's body, the Church
- Live happily in peace with God, themselves, and their fellow human beings

### *INTRODUCE*

- Express their joy in worship of God and in loving service to others
- Value all of God's creative work in His world and the Church
- Witness openly to Christ as the Savior of all people
- Participate actively in God's mission to the Church and the world Live in Christian hope

### *MASTER*

- Understanding of the Bible as many books, with One message
- Be able to understand and explain the Sacraments
- Explain Jesus' earthly life
- Recognize the importance to the teachings of Jesus
- Be able to discuss the illustrations of Jesus' message
- Be a shining light to proclaim God's Word