

Curriculum Overview 2015-2016

SEVENTH GRADE

GENERAL STUDIES

LANGUAGE ARTS

- Function of Verbs and Verbals
- Correct Use and Punctuation of Appositives
- Clauses
- Compound and Complex Sentences
- Subordinating Conjunctions
- Pronoun Cases and Correct Usage
- Vocabulary
 - Meaning of Grade Level English Words
 - Use Context to Identify or Clarify Meaning of Unfamiliar Words
 - Complete Analogies
 - Use Dictionary, Glossary or Thesaurus to Determine Meaning and Pronunciations
- Literature
 - Analyze Literary Works that Share Similar Themes
 - Explain Values and Beliefs of Characters as they are Affected by Historical and Cultural Settings
 - Making Inferences, and Drawing Conclusions
 - Identifying and Analyzing use of Literary Devices
 - Identify Various Forms of Literature
- Writing
 - Writing Process Including:
 - Planning
 - Drafting
 - Expository and Persuasive Texts
 - Research and Documentation
 - Write with Controlling Idea (Thesis) to Produce Multiple Paragraphs
 - Research from Multiple Sources that are Properly Sourced from and Cemented with a Thesis Sentence and Controlling Idea for Lengthy Paper
 - Proper Mechanics and Various Sentence Structures Required

MATH

- Decimals and Integers
- Algebra: Equations and Inequalities
- Exponents, Factors, and Fractions
- Operations with Fractions
- Ratios, Rates, and Proportions
- Percents
- Geometry
- Geometry and Measurement
- Algebra: Patterns and Rules
- Algebra: Graphing in the Coordinate Plane
- Displaying and Analyzing Data
- Using Probability
- Pre Algebra
 - Algebraic Expressions and Integers
 - Solving One-Step Equations and Inequalities
 - Decimals and Equations

- Factors, Fractions, and Exponents
- Operations with Fractions
- Ratios, Proportions, and Percents
- Solving Equations and Inequalities
- Linear Functions and Graphing
- Spatial Thinking
- Area and Volume
- Right Triangles in Algebra
- Data Analysis and Probability
- Nonlinear Functions and Polynomials

SOCIAL STUDIES

- History of Texas – Early times to Present
- US History
- US Constitution
- US Free Enterprise System
- Geography
- Economics
- Citizenship

SCIENCE

- Life Science
 - Cell Anatomy and Function
 - Body Systems
 - Sensory Receptors
 - Photosynthesis
 - Energy Flow in Organisms
 - Matter and Energy in Food Webs
 - Organism Interaction, Competition and Predation in Ecosystems
 - Ecosystem Changes in Biodiversity
 - Reproduction and Variation
 - Reproduction in Plants and Animals

- Growth of Plants
- Gene and Gene Mutations
- Genetic Variation
- Inheritance

● Physical Science

- Chemical Properties and Interactions
- Changes in Energy at the Molecular Level
- Energy Transfer in Temperature
- Characteristics of Chemical Reactions
- Modeling Conservation of Matter
- Energy in Chemical Reactions
- Kinetic and Potential Energy
- Thermal Energy Transfer
- Heat and Matter
- Energy Transfer in Motion

● Earth and Space

- Patterns of Motion
- The Universe
- The Solar System
- Earth, Sun and Moon System
- Formation of the Solar System
- Geologic History of Earth
- Seafloor Spreading

TEXTS

- Guidebook to Better English, Level 3
- Vocabulary Workshop, Level B
- Discoveries in Literature, Scott Foresman
- Novels
 - *The Pearl*
 - *Roll of Thunder, Hear My Cry*
 - *Miracle Worker*

- Beginnings in Literature – Anthology used for Short Stories/Poetry
- Reading to Understand a Wide variety of Literary and Informational Texts
- Writing Workshop
- Prentice Hall – Biology The Study of Life, High School Level
- Texas!, Harcourt
- The American Nation, Prentice Hall
- Prentice Hall, Science Explorer, Human Biology and Health
- Prentice Hall, Integrated Science Laboratory Manual
- STEMScopes – created by RICE University to provide integrated science, technology, engineering, and math lessons. Activities included
 - Writing
 - Reading
 - Math
 - social studies
 - science lesson
- Teacher Created Resources – Differentiated Lessons and Assessments