



**Shamong Township School District
Indian Mills Memorial School
Eighth Grade Curriculum Outline
2008-2009 School Year**

The Shamong Township School District Curriculum is aligned to the 2004 N.J. CCCS.

LANGUAGE ARTS

Text: ***Grammar and Composition Handbook***
Glencoe / McGraw Hill (2002)

Text: ***Write! Foundations and Models for Proficiency***

Curriculum Associates

Focus: Teachers choose from a variety of sources to help students develop skills necessary to become proficient writers who are able to express themselves effectively for various purposes and audiences.

Writing Units:

- Basic elements of writing-
 - Paragraph structure
 - Essays for various purposes
- Narrative writing
- Expository writing
- Persuasive writing
- Personal journal writing
- Poetry
- Research paper using MLA format

Grammar Units:

- Sentences/ subject/ predicate
- Nouns and verbs/ pronouns
- Adjectives , adverbs, prepositions
- Clauses and Complex Sentences
- Diagramming Sentences
- Punctuation
- Verbals
- Subject/verb agreement

Literature/ Vocabulary

Text: ***Glencoe Literature The Reader's Choice***
Glencoe / McGraw Hill (2002)

- ❖ ***Vocabutoons*** vocabulary cartoons that exercise building an educated vocabulary with visual mnemonics

Focus: Teachers choose from a variety of sources including the use of an anthology, class novels, and independent novels. Students are exposed to a variety of genre, content, elements of literature, author's style of writing, and strategies to develop comprehension skills.

LIBRARY

Focus: Students and teachers work in conjunction with the media specialist to refine techniques for completing oral presentations and other subject research projects.

MATHEMATICS

Select groups participate in Algebra.

Text: ***Algebra 1***

Internet connections: www.mcdougallittell.com
(includes application links, data updates, student help, career links, and extra challenges)

Focus:

- Connections to algebra-
- Variables
 - Exponents and powers
 - Order of operations
 - Equations and inequalities

Properties of real numbers-

- Addition, subtraction, multiplication, and division

MATHEMATICS

- Linear equations-
 - Multi-step equations
 - variables on both sides
- Decimal equations
- Formulas and functions
- Rates, ratios, and percents
- Graphing linear equations and functions
- Writing linear equations
- Solving and graphing linear inequalities
- Systems of linear equations and inequalities
- Exponents and exponential functions
- Quadratic equations and functions
- Polynomials and factoring
- Rational equations and functions
- Radicals and connections to geometry

8th grade math

Text: ***MathThematics-Book 3***

McDougal Littell,

Calculator- Texas Instrument (TI-34 II)

Focus:

- Module 1- Amazing Feats, Facts, & Fiction
Problem solving, displaying data, scatter plots, circumference/ volume, equations/ expressions, area and perimeter
- Module 2- At the Mall
Proportions/ percents, probability, operations with integers, fractions; inequalities and Box-and-Whisker plots
- Module 3-The Mystery of Blacktail Canyon
Square roots/measurement, equations/ graphs, slope. Equations, similar figures/ constructions, scientific notations/ decimal equations

- Module 4- Patterns and Discoveries
Fractals/ sequences/ triangles, rotations/ rational numbers, equations with fractions/ quadrilaterals, rational numbers/ polygons, working with triangles
- Module 5- Inventions
Cylinders, slopes/ equations of lines, exponents, complements/ supplements/ tangents, probability
- Module 6- Architects and Engineers
Geometry/ perspective, constructions, surface area and volume, angles formed by intersecting lines, inequalities, scale drawings and similar figures
- Module 7- Visualizing Changes
Graphs and functions, linear equations/ problem solving, modeling exponential change, algorithms and transformations, exploring quadratic functions
- Module 8- Making and Impact
Collecting data , making data displays, representing data, equivalent rates and relative frequency

SCIENCE

Text: ***Science Explorer Physical Science***

Prentice Hall (2007)

Focus:

- Scientific method
- Chemistry bonding, chemical reactions, chemical compounds, atomic energy
- Waves and sound
- Electromagnetic radiation
- Light
- Theories of space, theoretical cosmology
- Reproduction
- Genes and chromosomes
- Genetics
- Evolution
- Introduction to geology

Grade 8

SCIENCE

Special projects include creation of a science fiction short story, invention project, a science project, and an environmental project.

SOCIAL STUDIES

Text: *Creating America: Beginnings through Reconstruction*
MacDougal Littell (2005)

Web based on-line text with audio component available to students

Focus:

- Colonial Period
 - English establishment of 13 colonies
 - Colonial regions
- Revolutionary Period
 - American identity, culture, government
 - Events leading to Revolutionary War
 - Declaration of Independence
- The American Revolution
- United States Constitution
- Early government
- Westward expansion
- Events leading to Civil War
 - Slavery
 - Abolition movement
 - States' rights
- American Civil War
- Reconstruction

HEALTH/ PHYSICAL EDUCATION

A combined focus addresses the needs of the adolescent in both the physical and emotional aspects in the following areas:

Focus:

- Sexual harrassment & appropriate social behavior/bully
- Nutrition/ disease/ drugs & alcohol
- Drugs & alcohol/ adolescent development
- Self-image/self-esteem/ reflection/ summer safety
- Adventure activities-
- Team sports
- Dance dance revolution
- Fitness circuits
- Pedometer introduction

SPANISH

A select group of students participate in Spanish 1. This is a two year (7th and 8th grades) high level course that is equivalent to the first year of high school Spanish.

Text: *Ven conmigo Level 1, Chapters 6-10*

Focus:

- Vocabulary:
 - Family
 - Invitations
 - Restaurant
 - Staying Healthy- The Body
- Grammar:
 - ER and IR verbs
 - “go” verbs: hacer salir, poner
 - Possessive adjectives
 - Stem-changing verbs
 - Ir a+infinitive
 - Tener Expressions
 - Ser and Estar
 - Formal commands
 - The verb doler
 - Direct/ indirect object pronouns

- Culture:
Holidays and customs of Argentina, Chile, Costa Rica and Mexico

COMPUTER/ TECHNOLOGY

Focus:

- Incorporating charts into other projects
- Continuation of portfolio
- Review of word processing basics
- Digital photos with editing using Gimp 2
- Pivot Stick Figure, make short film on bullying, edit using Windows Movie Maker or Studio Launcher
- Rules of internet safety
 - Cyber-bullying
 - Gossip

Students also develop a collaborative social studies Character web and historical timeline

ART

Students examine art through a variety of medium, techniques and historical references.

Focus:

- Self portraits
- Positive /negative space
- Figure drawing

- Ceramics
- Relief Carving
- Still life drawing
- Contour line drawing
- Jewelry design
- Painting-water color, tempera, acrylic

WORLD LANGUAGE (SPANISH)

Text: *¡Expresate! 1A*

Part of the Related Arts Rotation

Focus:

- Reading conversations and 3-5 sentence paragraphs
- Writing 3-5 sentence conversations and paragraphs
- Reviewed and extended grammar topics
- Further emphasis on traditions of Spanish-speaking countries of the world

Students participate in a comprehensive and sequential program of music instruction which includes content, skills, and activities.

MUSIC

Focus:

- Musical history (Baroque and Classical eras)
- Guitar and composition
- Keyboard and composition
- History of Rock-n-Roll