10th Grade LANGUAGE ARTS

Section 1: Extemporaneous Speeches

Tenth grade students study Old English, Middle English, Early Modern English, and Late Modern English. They learn suffixes, prefixes, roots, changing connotations, and problems in diction. Students learn paragraph order, develop paragraphs, and create unity in paragraphs. Students demonstrate speeches including manuscript, memorized, impromptu, and extemporaneous. Students learn to write an introduction, complete the structure of an argument, and apply amplification and conclusion to their speeches. They learn to give interviews, listen actively, and note taking techniques. Tenth grade students learn the history of radio, television, motion pictures, and newspapers. They complete book reports throughout the year based on novels read in many different genres including science fiction, mystery, humor, adventure, tragedy, and drama.

E1001	Section 2: Manuscript Speeches	Section 2: Using Contexts and	
Chapter 1: History of English	Section 3: Memorized Speeches	Examples	
Section 1: Old English	Section 4: Impromptu Speeches	Section 3: Using Comparisons and	
Section 2: Middle English	E1004	Series	
Section 3: Early Modern English	Literature	Section 4: Using Roots	
Section 4: The Great Vowel Shift	E1005	Section 5: Memorizing Vocabulary	
Section 5: Late Modern English	Chapter 1: Researching Speeches	Chapter 3: Spelling	
Chapter 2: Structure and Development	Section 1: Knowing the Audience	Section 1: Suffixes	
of Words	Section 2: Brainstorming Topics	Section 2: More On Suffixes	
Section 1: Prefixes	Section 3: Narrowing the Topic	Section 3: Silent -E and Double	
Section 2: Suffixes	Section 4: Finding the Speech Purpose	Consonants	
Section 3: Roots	Section 5: Special Occasion Speeches	Section 4: A Glossary of Problem	
Section 4: Words From Mythology	Chapter 2: Speech Analysis	Words	
Section 5: Changing Connotations	Section 1: Speech Language	E1008	
Chapter 3: Word Choice	Section 2: Analyzing a Speech	Literature	
Section 1: Problems in Diction	Chapter 3: Listening Abilities	E1009	
Section 2: a Usage Glossary	Section 1: Giving Interviews	Chapter 1: Writing Paragraphs	
E1002	Section 2: Listening and Appreciation	Section 1: Kinds of Paragraphs	
Literature	Section 3: Listening Actively	Section 2: Topic Sentences	
E1003	Section 4: Note-Taking Techniques	Section 3: Paragraph Order	
Chapter 1: Writing a Speech	E1006	Section 4: Developing a Paragraph	
Section 1: Organizing the Body of a	Literature	Section 5: Unity in a Paragraph	
Speech	E1007	Chapter 2: Revising	
Section 2: Writing an Introduction	Chapter 1: The Media	Section 1: Misplaced Modifiers	
Section 3: Structure of an Argument	Section 1: A History of Radio and	Section 2: Dangling and Squinting	
Section 4: Amplification and	Television	Modifiers	
Conclusion	Section 2: A History of Motion Pictures	Section 3: Parallel Structure	
Chapter 2: Speech Presentation	and	Section 4: Proofreading	
Section 1: Voice	Newspapers	Chapter 3: Forms of English	
Section 2: Body	Section 3: Running a Radio Station	Section 1: Vocabulary	
Section 3: Visual Aids	Section 4: Making a Program	Section 2: Standard and Non-Standard	
Section 4: Guidelines For Visual Aids	Chapter 2: Vocabulary	English	
Chapter 3: Methods of Speaking	Section 1: Using Definitions	Section 3: Informal and Formal English	
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Section 4: Spelling

E1010 Chapter 1: Literary Genres Section 1: Science Fiction

Section 2: Mystery Section 3: Humor Section 4: Adventure Chapter 2: Forms of Drama

Section 1: Tragedy Section 2: Comedy Section 3: Drama Chapter 3: English Skills Section 1: Vocabulary Section 2: Spelling

Section 3: Sentence Shifts

10th Grade MATHEMATICS (Algebra II)

Tenth grade students add, subtract, multiply and divide polynomials. They work with complex fractions, ratios, and proportions. Students study the basics of quadratic equations, the square root method, and solving absolute value equations. Students learn about linear inequality, graphing linear inequalities, applying systems of linear inequalities, and addition and multiplication properties of linear inequalities. Tenth grade students study logarithms and antilogarithms and how to work these problems on a calculator. They study Pascal's Triangle and the The Binomial Theorem. Students make and interpret scatter plots, as well as parabola basics and graphing parabolas.

M1001 Chapter 1: Expressions: Rational/Operations Section 1: Rational Expressions Chapter 2: Polynomials: **Proficient/Operations** Section 1: Understanding the Language Section 5: The Square Root Method of Polynomials Section 2: Adding & Subtracting Polynomials Section 3: Ascending and Descending Order Section 4: Multiplying Monomials & **Polynomials** Section 5: Dividing Polynomials Chapter 3: More Rational Expressions & Polynomial Work Section 1: Synthetic Division Section 2: Working with Complex Fractions Section 3: Solving Rational Equations **Section 4: Ratios and Proportions** Section 5: Direct, Inverse, and Joint Variations M1002 Chapter 1: Exponents and Radicals Section 1: Rational Exponents Section 2: Radicals & Roots with **Absolute Values** Section 3: Simplifying Radicals Section 4: Adding & Subtracting **Radical Expressions** Section 5: Multiplying and Dividing **Radical Expressions** Chapter 2: Quadratics in One Variable

Section 1: The Basics of Quadratic

Equations

Section 2: Solving Quadratics by Factoring Section 3: Complex & Imaginary Numbers Section 4: Quadratic Equations with Non- Real Solutions Section 6: Graphing/Plotting Imaginary/Complex Numbers Chapter 3: More Quadratics Section 1: Completing the Square Section 2: The Quadratic Formula Section 3: The Discriminant Section 4: Checking Quadratic **Equation Solutions** M1003 Chapter 1: Absolute Values Section 1: Solving Absolute Value Equations Section 2: Solving Linear Inequalities Section 3: Compound Inequalities Section 4: Absolute Value Inequalities Chapter 2: Section 1: Rectangular Coordinate Section 2: Distance Formula & Pythagorean Theorem Section 3: Midpoint Formula Section 4: Slope of a Line Chapter 3: Section 1: Graphing Equations of Lines Section 2: Linear Equation Format and X&Y Intercepts Section 3: Point-Slope Form of the Equation of a Line Section 4: Slope-Intercept Form of the Equation of a Line M1004

Chapter 1: Graphs of Linear Inequalities Section 1: What is a Linear Inequality? Section 2: Graphing Systems of Inequalities Section 3: Applying Systems of Linear **Inequalities** Section 4: Properties of Inequalities Chapter 2: Linear Sentences in Two Variables Section 1: Linear Equations: Solutions **Using Graphing** Section 2: Dependent and Inconsistent **Systems** Section 3: Solving Systems of **Equations by Substitution Section 4: Solving Linear Equations Using Eliminations** Chapter 3: Matrices Section 1: an Introduction to Matrices Section 2: Adding and Subtracting Matrices Section 3: Scalar Multiplication of Section 4: Multiplying Matrices Chapter 1: More Work with Matrices Section 1: Augmented, Coefficient, and **Constant Matrices** Section 2: Gaussian Elimination Format Section 3: Solving Linear Equation **Systems Using Matrices** Section 4: Variables Do Not Match the Number of Equations Chapter 2: Determinants Section 1: A History Lesson of Matrices and Determinants Section 2: Determinants

Section 3: Cramer's Rule Section 1: Factoring Out a Polynomial Section 3: Discrete and Continuous Section 4: Third-Order Determinants Section 2: Factoring by Grouping **Functions** Chapter 3: More On Matrices Section 3: Factoring the Sum Or Section 4: Composite Functions Section 1: Identity Matrices **Difference of Cubes** Chapter 2: More On Functions Section 4: Factoring Trinomials with Section 2: Inverse Matrices Section 1: Inverse and Identity Section 3: Inverses For 3 X 3 Matrices Lead Coefficients of 1 **Functions** Section 4: Practice, Practice, Practice Chapter 3: Factoring Higher Level Section 2: Graphing Linear Polynomial M1006 **Expressions Functions** Chapter 1: Logarithms and Exponential Section 1: Factoring Trinomials of the Section 3: Graphing Rational Functions **Functions & Equations** Form $ax^2 + bx + c$ Section 4: Practice Exercises to Help Section 1: A History of Logarithms Section 2: Factoring Square Trinomials You Section 2: What is a Logarithm? Section 3: Solving Equations by Chapter 3: More Functions Section 3: Exponential Functions Section 1: Quadratic Functions **Factoring** Section 4: Logarithmic Functions Section 4: Review For You Before Your Section 2: Exponential Functions Chapter 2: Logarithmic & Exponential Section 3: Translations of Graphs of Test **Functions and Equations** M1008 **Functions** Section 1: The Nuts and Bolts of Chapter 1: Even More Factoring Section 4: Logarithmic Functions Section 1: Pascal's Triangle M1010 Logarithms Section 2: The Logarithm Table Section 2: Factorials Chapter 1: Basic Statistics Section 3: Antilogarithms Section 3: The Binomial Theorem Section 1: Ways to Measures Central Section 4: Binomial Coefficients and Section 4: Logarithm and Tendency **Antilogarithm Problems** Combinations Section 2: Graphs of Central Tendency Chapter 3: Natural Logarithms Chapter 2: Arithmetic Sequences and Section 3: Making Scatter Plots Section 1: Solving Natural Logarithms Section 4: Interpreting Scatter Plots Series Section 2: Solving Exponential and Section 1: Sequences Chapter 2: More Statistics Logarithmic Equations Section 2: Arithmetic Sequences Section 1: Ways to Measure Variation Section 3: Changing Bases and Section 3: Arithmetic Means in Data Simplifying Natural Logarithms Section 4: Arithmetic Series and Section 2: Standard Deviations Section 4: Proving the Laws of Section 3: The Normal Distribution Summation Chapter 3: Geometric Sequences and Section 4: Direct, Inverse, Joint and Logarithms Section 5: Some Logarithm Problems **Combined Variation** M1007 Section 1: Geometric Sequences Chapter 3: Permutations, Chapter 1: Factoring - Part 1 Section 2: Geometric Means Combinations & Probabilities Section 1: Factoring Natural Numbers Section 3: Finite Geometric Series Section 1: Permutations Section 2: Finding the Greatest Section 4: Infinite Geometric Series Section 2: Combinations Section 3: Probability Or Odds M1009 **Common Factors** Section 3: Factoring Monomials Chapter 1: Functions Section 4: Adding and Multiplying Section 4: Factoring the Difference of Section 1: Function Notation and **Probabilities** Two Squares Operations Chapter 2: Factoring - Part 2 Section 2: Relations and Functions

10th Grade SCIENCE (Biology)

Tenth grade students study the beginning of biology, the attributes of life, and the meaning of science. They study matter, acids, bases, buffers, energy, lipids and proteins. They study differentiation of cells, sexual reproduction, linked genes and traits, incomplete and multiple gene inheritance, and sex linked genes. Students learn about DNA and DNA structure, protein construction, mutations, pedigrees, and the Human Genome Project. Tenth grade students study the foundation of body systems including the nervous system, endocrine system, reproductive system, digestive system, excretory system, and muscular system. They record and analyze observations, conduct calculation, use tables and graphs, apply concepts, formulate hypothesis, and design experiments.

S1001

Chapter 1: Foundations of Biology

Section 1: Is Truth Public Opinion? Or

Faith?

Section 2: Is Truth Procedures and

Methods That Work?

Section 3: Is Truth Repeated

Observations? Or Logic?

Chapter 2: Scientific Approach of

Biology

Section 1: What is Science?

Section 2: Procedure of the Scientific

Method

Section 3: The Limitations of Science.

Chapter 3: History of Biology

Section 1: The Beginning of Biology

Section 2: Modern Science

Section 3: Advances in Biology

S1002

Chapter 1: Nature of Living Things

Section 1: Divisions of Science

Section 2: The Attributes of Life

Section 3: Biological Research

Technology and Measurement

Chapter 2: The Chemistry of Life

Section 1 Matter

Section 2: Acids, Bases and Buffers

Section 3: Energy

Chapter 3: Molecules of Life

Section 1: Carbon and Carbohydrates

Section 2: Lipids and Proteins

Section 3: Nucleic Acids

S1003

Chapter 1: Life Science

Section 1: Life Science: One Branch of

Science

Section 2: The Scientific Method

Section 3: Tools of the Scientist

Chapter 2: Cells: Design and Function

Section 1: Discovering Variety

Section 2: Cell's Complex Design

Section 3: Designed to Work

Chapter 3: Life Processes in Cells

Section 1: Maintenance and Survival

Section 2: Active Transport and

Movement

Section 3: Reproduction and Death

S1004

Chapter 1: Continuity of Life

Section 1: Asexual Reproduction

Section 2: Differentiation of Cells

Section 3: Sexual Reproduction

Chapter 2: Patterns of Inheritance

Section 1: Mendel's Rules

Section 2: Exceptions to the Law of Dominance

Section 3: Linked Genes and Traits

Chapter 3: Human Genetics

Section 1: Genotype-Phenotype and

Dominance

Section 2: Incomplete and Multiple

Gene

Inheritance

Section 3: Sex-Linked Genes and Other

Exceptions

S1005

Chapter 1: DNA Genetic Controller

Section 1: Discovering DNA

Section 2: Cell - Nucleus - DNA

Section 3: DNA'S Structure

Chapter 2: DNA At Work

Section 1: Replication, Transcription &

Translation

Section 2: Protein Construction

Section 3: Mutations and Pedigrees

Chapter 3: Genetic Engineering -

Mapping Genes – Diversity

Section 1 Genetic Engineering

Section 2: The Human Genome Project

Section 3: Environmental Influences

S1006

Chapter 1: Theories

Section 1: Theories and the Scientific

Method

Section 2: Historical View

Section 3: Charles Darwin

Chapter 2: Evolution and Special

Creation

Section 1: Origin of Life

Section 2: Origin of Man

Section 3: Fossils and the Geologic

Column

Section 4: Missing Links/Transitional

Forms

Chapter 3: More Evidence

Section 1: Human Evolution

Section 2: Cells, Genetics and

Mutations

Section 3: Scientific Principles and

Practices

S1007

Chapter 1: Our Body Systems

Section 1: Activity of Body Systems

Section 2: Principles of Human

Physiology

Section 3: Foundation of Body Systems

Chapter 2: Neurons and Hormones

Section 1: Nervous System

Section 2: Endocrine System

Section 3: Reproductive System

Chapter 3: Enzymes At Work

Section 1: Digestive System

Section 2: Excretory System

Section 3: Muscular System

S1008

Chapter 1: Whole Body Systems

Section 1: Skeletal System

Section 2: Circulatory System

Section 3: Respiratory System

Chapter 2: Body Defense Systems

Section 1: Lymphatic System

Section 2: Immune System

Section 3: Integumentary System

Chapter 3: Germ War

Section 1: Bacteria and Virus

Section 2: Bubble Boy

Section 3: Gene Therapy

S1009

Chapter 1: Scope of Ecology

Section 1: Definition of Ecology

Section 2: Ecosystem Factors

Section 3: Major Biomes

Chapter 2: Ecosystems At Work

Section 1: Energy Flow of Ecosystems

Section 2: Water, Carbon, and

Nitrogen Cycles

Section 3: Energy Pyramid

Chapter 3: Predicting Problems

Section 1: Biodiversity

Section 2: Fluctuations in Population

Size

Section 3: Signs of Stress

S1010

Chapter 1: Observations

Section 1: Recording Observations

Section 2: Analyzing Observations

Section 3: Conducting Calculations

Chapter 2: Making Judgments

Section 1: Comparing and Contrasting Section 2: Using Tables and Graphs

Section 3: Making an Inference

Chapter 3: Designing an Experiment

Section 1: Applying Concepts

Section 2: Formulating a Hypothesis

Section 3: Designing and Experiment

10th SOCIAL STUDIES (World History)

Tenth grade students study ancient empires including Egypt, India, Greece, and Rome. They study Judaism and Christianity, and Greek and Roman philosophy and religion. Students study the making of nations including England, France, Spain, and Russia. They learn about the American and French Revolution, the English Bill of Rights, and The French Declaration of Rights of Man and the Citizen. Tenth grade students study The Russian Revolution, the Nazis of Germany, and allied leaders. Students learn the ten steps to writing a term paper, from selecting a topic, to conducting research and recording the location of your sources, to writing your final draft paper.

SS1001

Chapter 1: Beginning of

Civilization

Section 1: Introduction Section 2: The Fertile Crescent: Sumer Section 3: Empires Section 4: Israel Chapter 2: Ancient

Civilizations

Section 1: Ancient Egypt and

Other

African Cultures

Section 2: Ancient India,

China and Other Asian Cultures

Section 3: Ancient Greece Section 4: Ancient Rome and

the Roman Empire

Chapter 3: Ancient Philosophy and Religion Section 1: Greek Philosophy

and Religion

Section 2: Roman Philosophy

and Religion

Section 3: Judaism Section 4: Christianity SS1002

Chapter 1: Early Middle Ages Section 1: The Roman Empire

Divided

Section 2: The Rise of Religions in the Middle Ages

Section 3: The Byzantine

Empire

Section 4: The Road to

Feudalism

Chapter 2: High Middle Ages Section 1: Medieval Life and

the Age of Chivalry

Section 2: Crusades: The

March Against

Islam

Section 3: The Making of

Nations:

England and France Section 4: The Making of Nations: Spain and Russia Chapter 3: The Birth of New

Ideas

Section 1: Renaissance Section 2: Reformation Section 3: Exploration Section 4: Science SS1003

Chapter 1: Era of Changes Section 1: Transition to

Modern Times

Section 2: Kings, Queens and

Absolute Monarchs

Section 3: Age of Enlightenment Section 4: Period of

Awakenings

Chapter 2: Revolutions Section 1: The Road to

Revolutions

Section 2: The Glorious

Revolution of England

Section 3: The American

Revolution

Section 4: The French Revolution and Napoleon Chapter 3: Important Documents in History Section 1: Magna Carta Section 2: English Bill of

Rights

Section 3: American

Documents

Section 4: The French Section 2: The Course of the Section 10: Sinusoidal Declaration of War Projection Rights of Man and the Citizen Section 3: War's End Section 11: Other Projections SS1004 Section 4: Allied Leaders Chapter 1: The Industrial SS1006 Chapter 1: Landforms and Revolution Chapter 1: The Modern Topographical Maps Section 1: The Beginning of World Section 1: Landforms Section 1: Treaties and Pacts Section 2: Vocabulary the Revolution: Great Britain Section 2: The Cold War Section 3: Topographical Section 2: Inventions and Section 3: Uprisings Maps Discoveries Chapter 2: Nation-Building Section 4: Where Are We-Section 1: The Middle East Section 3: The Revolution Or How to Read a Map Section 2: Africa Spreads to Other Countries Section 5: Map Legends Section 3: Latin America Section 4: Men of Discovery Chapter 2: Climates, Sub-Chapter 2: Romanticism Section 4: China Climates, Prevailing Winds Section 1: Romanticism's Section 1: Climates Chapter 3: The Atomic Age Characteristics Section 1: a Global Economy Section 2: Sub-Climates Section 2: Romanticism in Section 2: The Space Race Section 3: Prevailing Winds Literature Section 3: The Revolution in Section 4: Vocabulary **Telecommunications** Section 3: Romanticism in Art Section 5: Oceans Section 4: Romanticism in SS1007 Section 6: Ocean Currents Music Chapter 1: World Chapter 3: Calendars & Geography—Continents of Chapter 3: Expansion Beyond International Dateline **Native Shores** the World Section 1: Introduction Section 1: Imperialism and Section 2: Location Section 2: The Sun, Sundials, Colonialism Section 3: Place and Calendars Section 2: Nations and Their Section 4: Human-Section 3: Vocabulary Environment Section 4: International Frontiers Section 3: Impact of Interactions Dateline Imperialism in the Section 5: Movement SS1009 World: The Colonized Section 6: Regions Chapter 1: SS1005 Section 7: Continents Section 1: The First Chapter 1: World War I Section 8: Oceans Americans Section 2: Mound Builders Section 1: Declaring War Chapter 2—Maps and Globes Section 2: The Course of the Section 1: Lines of Latitude and Pueblos War Section 2: Lines of Longitude Section 3: Native American Section 3: The War's Impact Section 3: Coordinate Cultures Section 4: The War's End Locations On a Grid Section 4: The First Chapter 2: The Rise of Section 4: Hemispheres Europeans Section 5: Map Projections **Totalitarianism** Chapter 2: Section 1: Russian Revolution Section 6: Mercator Section 1: Early Settlements Section 2: Italy and Fascism Projection Section 2: Jamestown Section 3: The Nazis of Section 7: Mollweide Section 3: Massachusetts Section 4: New Netherland Germany Projection Section 4: Joseph Stalin Section 8: Robinson and Maryland Chapter 3: World War Ii Projection Chapter 3: Section 1: The Outbreak of Section 9: Azimuthal Section 1: Colonial-Indian War Projection Relations

Section 2: Second Generation of British

Colonies

Section 3: Settlers, Slaves

and Servants

Section 4: The Colonial

Period SS1010

Chapter 1: Ten Steps to Writing a Term Paper Step One: Don't Panic! Step Two: Select Your Topic Step Three: Figure Out What

a Term

Paper is So You Can Write

One

Step Four: Develop a Type 3

Question For Your Term Paper

Step Five: Develop a Draft

Thesis

Statement From Your Type 3

Question

Step Six: Conduct Your

Research and

Record the Locations of Your

Sources

Step Seven: Assemble Note

Cards and Write Outline

Step Eight: Write Your Draft

Paper

Step Nine: Read the

Instructor's

Comments and Write Final

Draft

Step Ten: Turn in Your Final Draft to Your Teacher and

Celebrate!

HI – Historical Interpretation