

7th Grade LANGUAGE ARTS



Seventh grade students study sentence structure, diagramming subjects and predicates, helping verbs and verb phrases, and irregular verbs. They read a chosen novel, write a daily journal as they read the novel, and complete a final review of the novel. They complete this process several times throughout the year with different types of literary works such as novels, short stories and poetry. They study nouns as subjects, direct objects, and predicate nominatives. Seventh grade students study proper, possessive, and predicate adjectives, and prepositions, interjections, and conjunctions and how to use them properly in sentence structure. Students learn to use colons, semicolons, apostrophes, quotation marks, parentheses, dashes, and hyphens effectively in sentences. Seventh grade students continue to strengthen their skills in the areas of spelling, vocabulary and grammar. usage.

E701

Chapter 1: Spelling and Writing
Section 1: Spelling List
Section 2: Spelling Rules
Section 3: Searching For Meaning
Chapter 2: Understanding Sentences
Section 1: Classifying Sentences
Section 2: Subjects and Predicates
Section 3: Diagramming Subjects and Predicates
Section 4: Phrases and Clauses
Section 5: Sentence Structure
Chapter 3: Verbs
Section 1: Action Verbs
Section 2: State of Being and Linking Verbs
Section 3: Helping Verbs and Verb Phrases
Section 4: Principal Parts of Verbs
Section 5: Irregular Verbs

E702

Literature

E703

Chapter 1: Spelling and Writing

Section 1: Spelling List
Section 2: Spelling Concepts
Section 3: Searching For Meaning
Chapter 2: Nouns
Section 1: Types of Nouns
Section 2: Nouns As Subjects
Section 3: Nouns As Direct Objects
Section 4: Nouns As Predicate Nominatives
Section 5: Indirect Objects
Section 6: Appositives, Gerunds, and Infinitives
Chapter 3: Pronouns
Section 1: Pronouns Defined
Section 2: Pronouns Must Agree
Section 3: The Case of Pronouns

E704

Literature

E705

Chapter 1: Spelling and Writing
Section 1: Spelling List
Section 2: Spelling Concepts
Section 3: Searching For Meaning
Chapter 2: Modifiers

Section 1: Adjectives Describe
Section 2: Proper and Possessive Adjectives
Section 3: Predicate Adjectives
Section 4: Comparing with Adjectives
Section 5: Adverbs
Section 6: Comparing with Adverbs
Section 7: Phrases As Modifiers
Chapter 3: Prepositions, Interjections, and Conjunctions
Section 1: Prepositions
Section 2: Interjections
Section 3: Conjunctions

E706

Literature

E707

Chapter 1: Spelling and Writing
Section 1: Spelling List
Section 2: Spelling Concepts
Section 3: Searching For Meaning
Chapter 2: Capitalization and Punctuation
Section 1: Capitalization Rules
Section 2: Commas

Section 3: Colons and Semicolons
Section 4: Apostrophes
Section 5: Underlining
Section 6: Quotation Marks
Section 7: Parentheses, Dashes, and Hyphens
Chapter 3: Paragraphs and Technical Directions
Section 1: Paragraphs
Section 2: Technical Directions

E708
Literature

E709
Chapter 1: Research Project
Section 1: Beginning the Research Project
Section 2: Learning to Outline
Section 3: Making an Outline
Section 4: Research
Chapter 2: Writing the Paper

Section 1: Making Your Writing Interesting
Section 2: Writing the Rough Draft
Section 3: Revising and Rewriting
Chapter 3: The Oral Report
Section 1: Getting Organized
Section 2: Preparing to Deliver
Section 3: Practicing
Section 4: Using Visual Aids
Section 5: Presenting the Speech

E710
Chapter 1: Writing a Narrative
Section 1: Point of View, Characters, and Strategies
Section 2: Plot
Section 3: Writing a Narrative
Chapter 2: Narrative Presentation
Section 1: Getting Organized
Section 2: Preparing to Deliver
Section 3: Practicing
Section 4: Visual Aids

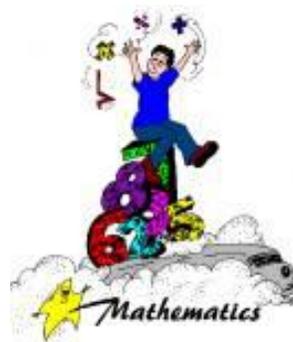
Section 5: Presenting the Speech
Chapter 3: Persuasive Compositions
Section 1: Beginning Persuasive Writing
Section 2: Arguments and Counterarguments
Section 3: Writing Persuasive Composition
Section 4: Revising and Rewriting
Chapter 4: Persuasive Presentation
Section 1: Getting Organized
Section 2: Preparing to Deliver
Section 3: Practicing
Section 4: Visual Aids
Section 5: Presenting the Speech

E711
Literature

E712
Literature



7th Grade MATHEMATICS



Pre-Algebra is an advanced course for seventh graders. This year-long course prepares students to enter the study of Algebra I (a high school credited course) as eighth graders. The focus of the course is building the foundation necessary for success in the study of algebra. Students will become familiar with the following: the properties of mathematics; the language of algebra; solving one step and two step equations; adding, subtracting, multiplying and dividing rational numbers and integers; solving inequalities; graphing equations and inequalities; proportion; percent; statistics and graphs; probability; applying algebra to geometry; measurement; introduction to trigonometry; and the study of polynomials.

M701

Chapter 1: Addition and Subtraction
Chapter 2: Multiplication and Division
Chapter 3: Word Problem Strategies

M702

Chapter 1: Algebra and Integers
Section 1: Adding Integers
Section 2: Subtracting Integers
Section 3: Number Line Addition & Subtraction
Section 4: Multiplication & Division
Chapter 2: Units of Measure
Section 1: Time
Section 2: Customary & Metric
Section 3: Converting Between Customary & Metric
Chapter 3: Graphs & Diagrams
Section 1: Bar Graphs
Section 2: Line Graphs
Section 3: Tables
Section 4: Venn Diagrams

M703

Chapter 1: Rounding and Estimation
Section 1: Rounding
Section 2: Estimating
Section 3: Evaluating Solutions
Chapter 2: Order of Operations
Section 1: Addition and Subtraction
Section 2: Multiplication and Division
Section 3: Exponents

Section 4: Parentheses, Braces, and Brackets

Chapter 3: Story Problems
Section 1: Whole Numbers
Section 2: Multiple-Step Problems
Section 3 Irrelevant and Missing Information

M704

Chapter 1: Properties of Math
Section 1: Commutative Property
Section 2: Associative Property
Section 3: Distributive Property
Section 4: Identity and Inverse Properties
Chapter 2: Comparison
Section 1: Number Groups
Section 2: Comparing Fractions
Section 3: Comparing Decimals, Fractions, & Percentages
Chapter 3: Absolute Value and Prime Numbers
Section 1: Prime and Composite Numbers
Section 2: Prime Factors
Section 3: Greatest Common Factor
Section 4: Least Common Multiple
Section 5: Absolute Value

M705

Chapter 1: Fraction Basics
Section 1: Reducing to Lowest Terms
Section 2: Least Common Denominator

Section 3: Addition and Subtraction of Fractions

Chapter 2: Improper Fractions and Mixed Numbers

Section 1: Understanding Improper Fractions and Mixed Numbers

Section 2: Conversion with Mixed Numbers and Improper Fractions

Section 3: Advanced Adding and Subtracting of Fractions and Mixed Numbers

Chapter 3: Multiplying, Dividing, Estimating and Order of Operations
Section 1: Multiplication and Division of Fractions

Section 2: Estimating Fractions

Section 3: Order of Operations in Fractions

M706

Chapter 1: Expressions and Equations

Section 1: Expressions

Section 2: Equations (Addition and Subtraction)

Section 3: Equations (Multiplication and Division)

Chapter 2: More Equations and the Distance Formula

Section 1: Two-Step Equations

Section 2: Equation Systems

Section 3: The Distance Formula

Chapter 3: Inequalities and Writing Equations

Section 1: Inequalities
Section 2: Writing Equations

M707

Chapter 1: Exponents
Section 1: The Multiplication Property of Exponents
Section 2: The Power Properties of Exponents
Section 3: The Division Properties of Exponents
Chapter 2: Scientific Notation
Chapter 3: Radicals
Section 1: Square Roots
Section 2: The Pythagorean Theorem

M708

Chapter 1: Percent, Probability, and Permutations
Section 1: Percent
Section 2: Probability
Section 3: Compound Probability
Section 4: Permutations
Chapter 2: Consumer Math
Section 1: Sales Tax
Section 2: Discounts and Depreciation
Section 3: Markup and Appreciation
Section 4: Commission
Chapter 3: Profit and Interest
Section 1: Profit
Section 2: Simple Interest
Section 3: Compound Interest

M709

Chapter 1: Polygons and Perimeter
Section 1: Polygons
Section 2: Perimeter
Section 3: Circumference
Chapter 2: Area
Section 1: Rectangles, Squares, and Other Parallelograms
Section 2: Triangles
Section 3: Trapezoids
Section 4: Circles
Chapter 3: Surface Area and Volume
Section 1: Surface Area
Section 2: Cubes and Rectangular Prisms
Section 3: Triangular Prisms and Cylinders
Section 4: Pyramids and Cones

M710

Chapter 1:
Section 1: Coordinate Graphing
Section 2: Graphing Simple Figures
Section 3: Translation, Reflection, and Missing Points
Section 4: Graphing Linear Functions
Chapter 2: Slope Angles and Basic Geometry
Section 1: Slope
Section 2: Types of Angles
Section 3: Polygons

Chapter 3: Symmetry and Congruency

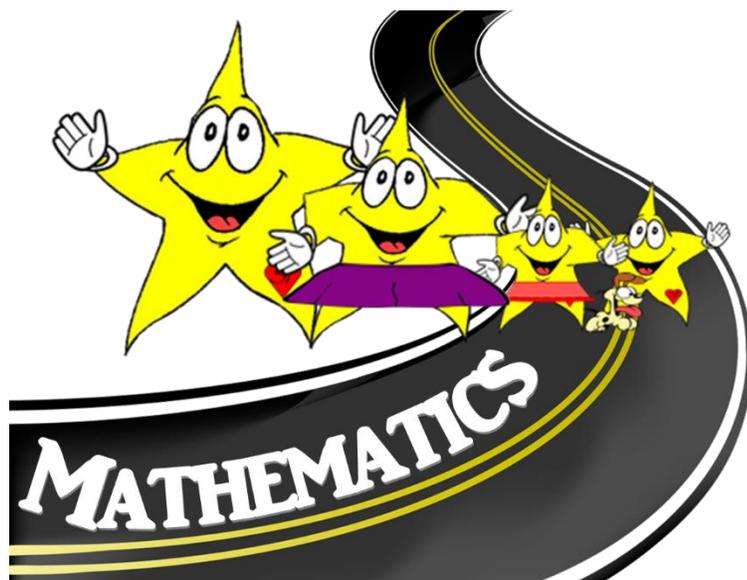
Section 1: Symmetry
Section 2: Congruency
Section 3: Triangles

M711

Chapter 1: Basic Statistics
Section 1: Mean, Median, Mode, and Range
Section 2: Outliers and Central Tendency
Chapter 2: Graphing Basic Statistics
Section 1: Graphs of Central Tendency
Section 2: Making Scatter Plots
Section 3: Interpreting Scatter Plots
Chapter 3: More Statistics
Section 1: Quartiles
Section 2: Box-And-Whisker Plots

M712

Chapter 1: Expressions and Graphing Lines
Section 1: Expressions
Section 2: Exponents
Section 3: Graphing Lines by Generating Points
Chapter 2: Planes and Intersections
Section 1: Planes
Section 2: Lines and Points in Planes
Chapter 3: Spatial Relationships
Section 1: Nets and Patterns



7th Grade SCIENCE



Seventh grade science students study scientific equipment, how to conduct an experiment, and how to be safe in the lab. They learn to classify the plant and animal kingdom and to identify life. Students learn cell structure and cell parts and the different jobs of cells. They study the human body and how it works including the skeletal system, the heart, the respiratory system, the nervous system, and the anatomy of the eye. Students study genetics, cloning, evolution, and the origin of life. Through topic and project research a sample project is created and presented. Students are encouraged to be inquisitive and analytical. A lifelong interest in science is built with field trips and real world experiences.

S701	Section 1: Classifying the Plant Kingdom	Section 2: Growing Bones
Chapter 1: Introduction	Section 2: Classifying the Animal Kingdom	Section 3: Can Levers Lessen Your Load?
Section 1: Observations and Inferences		Chapter 3: Muscle & Tissue
Section 2: What is the Scientific Method?	S703	Section 1: Movement
Section 3: How to Conduct an Experiment	Chapter 1: Cells: Building Blocks of Life	S705
Section 4: Project Conclusion	Section 1: The World of Cells	Chapter 1: Pulmonary Circulation
Chapter 2: Safety	Section 2: Systems and Interactions	Section 1: The Respiratory System
Section 1: How to Be Safe in the Lab	Section 3: Cell Structure and Cell Parts	Section 2: The Respiratory Jobs
Section 2: The Metric System	the Nucleus Cytoplasm and Organelles	Section 3: How Does It Work?
Section 3: Prefix & Suffix List of Science	Cellular Respiration	Chapter 2: Coronary Circulation
Chapter 3: Scientific Experiment	Chapter 2: Cartilage Cells	Section 1: Cardio Basics
Section 1: Scientific Equipment	Section 1: The Different Jobs of Cells	Section 2: The Four Chambers
	Section 2: Cell Specialization	Chapter 3: Systemic Circulation
	Section 3: Things to Remember About Specialty Cells	Section 1: Blood Facts
	Chapter 3: Microorganisms	Section 2: Arteries
S702	Section 1: Viruses and Infection	Section 3: Veins
Chapter 1: What is Life?		Section 4: Capillaries
Section 1: Identifying Life	S704	S706
Section 2: Is It Alive?	Chapter 1: The Skeletal System	Chapter 1: The Nervous System
Section 3: Fun Facts	Section 1: The Skull	Section 1: The Parts of the Nervous System
Chapter 2: Classifying Life	Section 2: The Spinal Column	Section 2: The Central Nervous System
Section 1: The History of Scientific Classification	Section 3: The Chest Or Rib Cage	The Brain Left Brain/Right Brain The Spinal Cord Reflexes and the Reflex Arc
Section 2: Pioneering the Way	Section 4: The Arms and Legs	Chapter 2: The Peripheral Nervous System
Section 3: Organization	Section 5: The Joints	Section 1: The Autonomic Reflex System
Section 4: Basic Taxonomy and the Five Kingdoms	Chapter 2: The Skeletal System Continued	
Section 5: Grouping by Characteristics	Section 1: The Composition of the Bones	
Chapter 3: Classification		

Section 2: The Somatic Nervous System

Chapter 3: Breaking It Down

Section 1: The Neuron

Section 2: Kinds of Nerves

S707

Chapter 1: Eyes

Section 1: Anatomy of the Eye

Section 2: How Do You See

Chapter 2: Ears

Section 1: Your Ears & Hearing

Section 2: What Are Sounds, Anyway?

Chapter 3: Skin

Section 1: The Skin

S708

Chapter 1: Asexual Reproduction

Chapter 2: Cloning

Section 1: Recombinant DNA

Technology Or DNA Cloning

Section 2: Reproductive Cloning

Section 3: Therapeutic Cloning

Chapter 3: Sexual Reproduction

S709

Chapter 1: How Do Organisms Get Their Traits

!

Chapter 2: Mendel's Peas

Section 1: It's Genetics...

Chapter 3: Mutations, Genes, Proteins & DNA

Section 1: Mutations

Section 2: Genes, Proteins & DNA

Section 3: How to Make Proteins

S710

Chapter 1: Evolution

Chapter 2: Intelligent Design

Chapter 3: Origins of Life

Section 1: Spontaneous Generation

Section 2: Joseph Lister

Section 3: Louis Pasteur

S711

Chapter 1: Scientific Method

Section 1: Research

Section 2: Problem

Section 3: Hypothesis

Section 4: Project Experimentation

Section 5: Project Conclusion

Section 6: Topic Research

Section 7: Keep a Journal

Section 8: Selecting a Topic

Section 9: Project Types: Three Basic Choices

Chapter 2: Project Research

Section 1: Primary Research

Section 2: Secondary Research

Section 3: a Sample Project

Section 4: Starting Your Project

Section 5: Procedure

Section 6: Results

Section 7: Explaining Your Results

Section 8: Hypothesis

Chapter 3: Project Report

Section 1: Title Page

Section 2: Table of Contents

Section 3: Abstract

Section 4: Introduction

Section 5: Experiment and Data

Section 6: Sources

Section 7: Acknowledgments

S712

Chapter 1: Scientific Notebook

Section 1: Student Information Sheet and Calendar

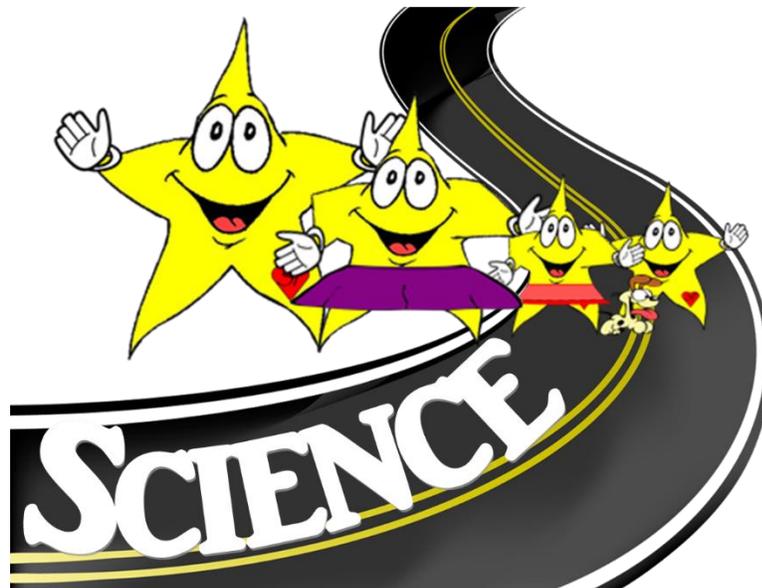
Section 2: Student Information Sheet and Calendar

Section 3: What Do You Think!

Answers

Section 4: Self Evaluation Rubric

Section 5: Lab Notes For Check It Out



7th Grade SOCIAL STUDIES



Seventh grade social studies students study the Roman Empire including its geographic borders, social woes, religion and philosophy, crisis in Roman leadership and military, and eastern orthodox civilization and church/state relations. They study China and Japan and the discoveries that changed their world. Seventh grade students study Mexico, Central America and the rise of the Mayan Empire. They study Christian Missionaries, Catholic and Protestant European Regions, and Jewish, Christian, and Muslim Science. Students create maps and write bibliographies and time lines to incorporate into reports outlining and evaluating what they learn.

SS701

Chapter 1: Early Strengths and Lasting Contributions of Rome

Section 1: The Roman Republic

Section 2: Religion and Philosophy

Section 3: Geographic Borders At the Height of the Roman Empire

Chapter 2: The Disintegration of the Roman Empire

Section 1: Factors That Threatened Rome's Territory

Section 2: Social Woes:

Section 3: Crises in Roman Leadership and Military

Chapter 3: Development of the Byzantine Empire

Section 1: Constantine's Achievements and the New Capital of Constantinople

Section 2: Roman Catholicism and Church/State Relations

Section 3: Eastern Orthodox

Civilization and Church/State Relations

SS702

Chapter 1: The Arabian Peninsula

Section 1: Physical Features of the Peninsula

Section 2: Tribal Society

Section 3: Nomadic and Sedentary Lifestyles On the Arabian Peninsula

Chapter 2: The Life and Teachings of Muhammad

Section 1: The Life of Muhammad

Section 2: The Teachings of Muhammad

Section 3: The Koran (Qur'an) and Sunnah

Chapter 3: Islamic Expansion and Civilization

Section 1: The Caliphs and Islamic Expansion

Section 2: The Umayyads and the Abbasids

Section 3: Cities, Commerce and Culture in Islam

SS703

Chapter 1: The Tang Dynasty

Section 1: The Tang Dynasty and the Reunification of China

Section 2: Poetry in the Tang Dynasty: a High Point

Section 3: Religion in China: "the Three Ways"

Chapter 2: The Sung Dynasty and the Mongol Ascendancy

Section 1: The Sung Dynasty: a Time of Prosperity

Section 2: The Mongols: Conquer by Might

Chapter 3: The Ming Dynasty and the Imperial State

Section 1: The Imperial State and the Scholar Official Class

Section 2: Discoveries That Changed the World

SS704

Chapter 1: The Ancient Kingdoms of Ghana and Mali

Section 1: The Niger River, the Sahel, the Sahara Desert and the Building Blocks of Trade

Section 2: Ghana

Section 3: Mali

Chapter 2: West African Culture: Family, Traditions, Labor and

Commerce

Section 1: Village Life

Section 2: Regional Commerce and City Life

Section 3: Oral Tradition and the Transmission of West African History

Chapter 3: Islam Comes to West Africa

Section 1: The Trans-Saharan Caravan Trade

Section 2: The Arabic Language in West Africa

Section 3: Muslim Merchants, Scholars and Kings

SS705

Chapter 1: Medieval Japan and Her Neighbors

Section 1: The Geography of Japan

Section 2: Prince Shotoku and the Influence of China and Korea

Section 3: Japanese Family and Social Life in Nara, Japan

Chapter 2: The Lord-Vassal System

Section 1: The Values and Traditions of the Shogun, Daimyo, and Samurai

Section 2: Military Society and the Role of the Samurai

Section 3: The Enduring Influence of the Warrior Code

Chapter 3: The Golden Age of Literature and the Propagation of Buddhism

Section 1: Literature, Art and Drama in Japan's Golden Age

Section 2: The Tale of Genji

Section 3: Japanese Buddhism

SS706

Chapter 1: Medieval Europe: Chapter One: Geography, Monarchy and Church

Section 1: Geography

Section 2: The Spread of Christianity

Section 3 Monarchs and Popes

Chapter 2: Catholicism, English Legal Practices and the Crusades

Section 1: The Catholic Church As a Political and Intellectual Institution

Section 2: Magna Carta, Parliament, and the Development of Habeas Corpus in England

Section 3: The Holy Crusades

Chapter 3: Feudalism, Plague, and the Reconquista

Section 1: Feudalism

Section 2: Plague, the Black Death

Section 3: The Moors, Christians and the Reconquista

SS707

Chapter 1: Medieval History—Writing a Report

Section 1: Choosing a Topic

Section 2: Finding Sources of Information

Section 3: Reading Your Sources and Taking Notes

Section 4: Organizing Your Ideas and Writing Your Outline

Section 5: Writing the Rough Draft

Section 6: Drawing a Map

Section 7: Creating a Time Line

Section 8: Writing a Bibliography

Section 9: Editing the Rough Draft

Section 10: Writing the Final Copy

Section 11: Medieval History Report Scoring

Section 12: Bibliography Examples

SS708

Chapter 1: The Geography of Mexico, Central America and South America and the Rise

of the Mayan, Aztec, and Incan Empires

Section 1: The Geography of Mexico and the Rise of the Aztec Empire

Section 2: The Geography of Southern Mexico and Central America and the Rise of the Mayan Empire

Chapter 2: Artistic, Mathematic and Architectural Achievements in Aztec, Mayan and Incan Civilizations

Section 1: Artistic Achievements

Section 2: Mathematical Achievements

Section 3: Architectural Achievements, Mayan Architecture

Chapter 3: Aztec, Mayan and Incan Society

Section 1: Roles in Society and Family Life

Section 2: Religion and Warfare

SS709

Chapter 1: The Classical Revival, the Arts and Humanism

Section 1: The Revival of Classical Learning and the Arts

Section 2: Humanism

Chapter 2: Commerce, Trade and the Spread of Renaissance Ideas

Section 1: The Early Renaissance and Florence

Section 2: The Growth of Independent Trading Cities

Section 3: The Silk Road

Chapter 3: Renaissance Advances

Section 1: Literature, the Arts, Science, Mathematics

Section 2: Cartography, Engineering, Human Anatomy

Section 3: Dante, Leonardo Davinci, Michelangelo, Shakespeare

SS710

Chapter 1: Reformers and the Catholic Church

Section 1: Internal Weakening and Turmoil in the Catholic Church

Section 2: Major Figures of the Reformation

Section 3: Church Self Government Among Protestants

Chapter 2: The Counter Reformation

Section 1: European Regions: Catholic and Protestant

Section 2: The Revitalization of the Catholic Church

Section 3: The Council of Trent

Chapter 3: The Diffusion of Christianity

Section 1: Christian Missionaries

Section 2: The Golden Age of Cooperation –Jews and Muslim

Section 3: Religious Persecution

SS711

Chapter 1: Roots of the Scientific Revolution

Section 1: Greek Rationalism

Section 2: Jewish, Christian, and Muslim Science

Section 3: Renaissance Humanism, Knowledge From Global Exploration

Chapter 2: New Scientific Theories and Inventions

Section 1: The Theories of Copernicus and Galileo

Section 2: The Theories of Kepler and Newton

Section 3: New Inventions

Chapter 3: Scientific Rationalism and Religious

Beliefs

Section 1: The Scientific Method

Section 2: Influence of the New Scientific Rationalism

Section 3: Science and Religion

SS712

Chapter 1: Discovery

Section 1: Great Voyages

Section 2: The Influence of Cartography On a New European World View

Section 3: Exchanges of Culture, Technology, and Ideas Between Europe, Africa, Asia, and America

Chapter 2: The Origins of Modern Capitalism

Section 1: Mercantilism and Cottage Industry

Section 2: The Market Economy of 17th Century Europe

Section 3: International Trading

Chapter 3: The Enlightenment

Section 1: Origins of the Main Ideas of the Enlightenment

Section 2: Enlightenment Thinkers and Their Influence On Democracy

Section 3: The Principals of the Magna Carta

