

Scope and Sequence

*These are only suggestions and guidelines, **NOT** mandatory requirements of Allendale Academy*

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Kindergarten

Typical Course of Study

Social Studies

Meanings of holidays, traditions and customs
Understanding and appreciating other cultures
Individual's role in family, home, school and community
Relationship of individual in a group
Work and jobs
Safety rules and symbols
Basic human needs
Self-respect and self-awareness
Awareness of others
Location of home
Diagram of home

Science

Observation of everyday, familiar things
Common animals and plants
Interrelationships of animals and plants
Classification of living things
Farm animals
Care of pets
Like and unlike plants
Indoor plants
The sun: our principal source of energy
Weather and seasons
Temperature
Light
Color
Senses
Earth, moon, stars, planets
Simple measurement
Beginning experimentation

Language Arts

Phonics
Oral reading
Listening to literature, music, poetry
Nursery rhymes, fairy tales, fables

(Language Arts cont.)

Social listening
Constructing visual images while listening
Oral communication skills
Role play
Following and giving instructions
Paraphrasing and summarizing
Organizing ideas
Experience stories
Relating events and experiences using complete sentences
Listening for correct speech habits and word usage
Beginning writing process
Manuscript handwriting

Health and Safety

Personal hygiene
Good eating habits
Good grooming
Care of teeth
Major body parts
Physical fitness
Personal safety

Mathematics

Simple counting to 20
One-to-one relationship
Concepts of more, less than, same
Sequence of events
Correspondence of quantities
Ordinal and cardinal relationship
Recognition of basic sets
Meaning of addition and subtraction
Introduction to number line
Estimation
Elementary geometry (shapes)
Calendar and clock
Denomination of money
Basic problem-solving strategies
Basic chart and graph concepts

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1st Grade

Typical Course of Study

Social Studies

Holidays, traditions and customs
Our American Heritage
Different cultures at different times
Family, school, neighborhood, community
Farm and zoo
Neighborhood helpers
Jobs and careers
Social skills and responsibilities
Basic geometry terms
Making and reading a simple neighborhood map

Science

Grouping and classification
Living and non-living things
Animals
Pets
Farm animals
Zoo and circus animals
Woodland animals
Common birds
Plant and animal habitats
Seeds, bulbs, plants, flowers
Weather and seasons
Day and night
Solids, liquids, gases
Air and water
Magnets
Fire and temperature
Sun, moon, stars, planets
Simple machines
Beginning experimentation
Scientific method and scientific inquiry

Language Arts

Reading
-Phonetic analysis
-Structural analysis
-Establishing sight vocabulary
Reading informally: names, labels, signs
Simple pantomimes and dramatic play
Creating stories and poems
Telling favorite stories
Organizing ideas and impressions
Enunciation and pronunciation
Presenting information orally, in sequence and with clarity
Book reports and critiques

(Language Arts Cont.)

Discussion skills: taking part in family discussion
Beginning dictionary skills: alphabetizing
Beginning spelling
Beginning grammar: nouns, verbs, adjectives
Introduction to capitalization and punctuation
Manuscript handwriting
Handling books
Using table of contents
Development of a family newspaper

Health and Safety

Personal hygiene
Dental health
Good eating habits
Exercise and rest
Diseases
Common cold
Dressing for weather and activity
Safety in the home

Mathematics

Counting and writing to 100
Counting by 2's to 40
Simple number patterns
Beginning ordinal numbers
Using 10 as a basic unit
Simple properties of zero
Simple properties of sets
Beginning addition and subtraction facts
Number-line use
Place value and numeration
Concepts of quantity and size
Concepts of equality and inequality
Concepts of ordinal and cardinal numbers
Using 1/2 and 1/4 appropriately
Estimation
Geometric patterns and figures
Basic customary and metric measurement
Recognizing time: clock and calendar
Value of penny, nickel, dime, quarter
Solving simple word problems
Basic probability and chance
Basic chart and graph concepts

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2nd Grade

Typical Course of Study

Social Studies

Holidays and festivals
Patriotic celebrations
Communities in other lands, past and present
Family and family history
Neighborhoods
Community services and helpers
Shelters, stores, and food
Citizenship and social responsibilities
Interdependence of people
Basic geography: oceans, continents
Map skills

Science

Useful and harmful animals
Life cycle
Birds and insects in winter
Animal babies
Animal defense of themselves and their young
Plant and animal food
Dinosaurs and other extinct animals
Food chain
Plant reproduction and growth
Habitats and homes
Weather and its effect on earth
Effects of the seasons on the lives of people, animals and plants
Climate
Water cycle
Air and atmosphere
Magnets and forces
Gravity
Earth and sky
Sun, moon, planets
Simple constellations
Exploring space
Scientific method and scientific inquiry

Language Arts

Reading silently for purpose
Dramatizations and interpretative or oral reading
Use and meaning of quotation marks in reading
Story development: beginning, middle, end
Simple book reviews

(Language Arts Cont.)

Listening skills
Organizing ideas and impressions
Alphabetizing through second letter of a word
Using dictionary guide words
Vocabulary development
Homonyms, synonyms, antonyms
Methods of word attack
Ways to study spelling
Simple punctuation and capitalization
Refining manuscript handwriting
Writing independently for manuscript form
Brief and simple letters and journals
Narration, descriptions, letters, poetry
Increasing skill in handling books: table of contents, and index

Health and Safety

Personal cleanliness
Dental hygiene
Basic food groups
Communicable diseases
Preventive measures against disease
Neighborhood safety

Mathematics

Counting, reading, writing to 1,000
Counting by 2's, 3's, 4's, 5's, and 10's
Ordinal numbers to 10
Zero as a place holder
Using sets and number facts
Addition and subtraction facts to 20
Basic multiplication and division facts
Multiplication and division facts as inverse operations
Multiplication properties of 0 and 1
Place value through 100's
Fractions in daily life
Decimal numeration system
Basic concept of ratio
Geometry puzzles and activities
Estimation
Common customary and metric measures of time, weight, length, volume, shape, and temperature
Telling time and using the calendar
Handling money (coins)
Problem solving
Charts and graphs

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3rd Grade

Typical Course of Study

Social Studies

Holidays and folk customs
Native Americans
Explorers and pioneers
Appreciation of different cultures, races, and religions
History and development of local community
Community helpers
Consumers and producers
Sources of food and clothing
Shelters of animals and people
History and development of transportation
History and development of communication
Citizenship and social responsibility
Basic human needs and wants
Local geography and topography
U.S. geography and regions
The continents
Flat maps and globes

Science

Animal helpers
Dinosaurs
Life cycle
Plants and animals of the desert
Plants and animals of the sea
Common birds, trees, and flowers
Forest plants
Conservation of plants and animals
Weather and climate
Earth's changing surface
Magnets and electricity
Compass
Gravity
Light and color
Energy and its sources
Force and work
Machines
Moon and stars
Earth satellites
Scientific method and scientific inquiry

Language Arts

Silent reading
Reading prose and poetry aloud
Oral presentations: reporting experiences orally with accuracy

(Language Arts Cont.)

Alphabetizing through the third letter of a word
Dictionary skills
Developing word-attack methods
Synonyms, antonyms, and homonyms
Spelling
Beginning cursive writing
Concept of paragraph
Using period, comma, question mark, apostrophe, and quotation marks
Writing short, original stories and poems
Postwriting skills: editing and proofreading
Increasing indexing skills

Health and Safety

Care of eyes and ears
Dental health
Proper balance of activities
Healthful leisure activities
Prevention and control of diseases
Parts of the body
Nutrition
Health with relation to food, shelter, and clothing
Community health services
Hazards in the home
Safety in the community
Simple first aid

Mathematics

Reading and writing numbers to 5 places
Beginning Roman numerals
Rounding numbers
Positive and negative numbers in daily life
Simple fractions and equivalents
Properties of one
Numeration systems
Addition and subtraction facts to 25
Multiplication and division to 100
Perimeter, area and volume
Geometric constructions
Similar and congruent figures
Properties of solid figures
Customary and metric measures
Time to 1- and 5-minute measures
Estimation of outcomes
Problems-solving analysis
Word problems
Charts and graphs

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4th Grade

Typical Course of Study

Social Studies

Types of community life
History and development of the local state
Relation of the state to its region, nation, and the world
World cultures
Reasons for our laws
Regions of the world
Continents
Time zones
Earth's resources
Climatic regions of the world
Map skills: longitude, latitude, and scale
Using a globe

Science

Structure of plants
Environment of the local region
Biological organizations
Classification systems
The insect world
The reptilian world
Plants and animals of the past
Structure of plants
Seeds
Ecosystems
Balance of nature
Human body
Weather's influences
Weather instruments
Climate
Cause of seasons
Earth and its history
Oceans and the hydrosphere
Air and water pollution
Magnets and electricity
Light and color
Solar system and the universe
Living in space
Scientific method and scientific inquiry

Language Arts

Silent and oral reading
Listening skills
Telephone skills
Making and accepting simple social introductions
Summarizing simple information

(Language Arts Cont.)

Listening to literature
Critical reading
Short stories, chapter books, poetry, and plays
Spelling
Increasing dictionary skills
Cursive handwriting
Simple outlining
Writing letters and informal notes
Written and oral book reports
Creative writing
Developing skills in locating information
Increasing indexing skills
Developing encyclopedia skills
Utilizing parts of a newspaper

Health and Safety

Personal and mental hygiene
Dental health
The body and its functions
Skeletal and muscular systems
Care and proper use of the body
Principles of digestion
Basic good groups
Good nutrition habits
Diseases
Safety
Substance abuse

Mathematics

Reading and writing numbers
Roman numerals to C
Prime numbers less than 100
Prime factoring
Numeration systems
Subsets
Decimal and fraction equivalents
Addition and subtraction facts to 7 places
Multiplication and division facts to 144
1-, 2-, and 3-digit multiplication problems
2- and 3-digit dividend, 1-digit divisor problems
Meaning of mixed numbers
Finding simple averages
Geometric concepts
Customary and metric measurement
Time to the second
Problem-solving methods
Charts and graphs

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5th Grade

Typical Course of Study

Social Studies

Exploration and discovery
Establishment of settlements in the New World
Colonial life in America
Pioneer life in America
Revolutionary war in America
Westward movement in America
Industrial and cultural growth
Democracy's principles and documents
Life in the U.S. and its possessions
Geography of the U.S.
Natural resources of the U.S.
Canada and Mexico
Relationship between the U.S. and Canada
Comparative cultures of Canada
Countries and cultures of the Western Hemisphere: Central America, West Indies, and South America
Map and globe skills

Science

Biological adaptations
Biotic communities
Animal and plant classification
Fish
Reptiles
Bacteria
Molds
Trees
Plants and their food
Conservation
Cells
Human body
Landforms
Properties of air and water
Time and seasons
Temperature and thermometers
Magnetic fields
Use and control of energy
Conduction and convection
Light and optics
Force systems
Chemical systems
Sun and solar system
Space and space exploration
Scientific method and scientific inquiry

Language Arts

Silent and oral reading
Types of literature
Presenting original plays
Listening skills
Dictionary use for word meaning, analysis, spelling
Common homonyms

(Language Arts Cont.)

Homophones and homographs
Synonyms and antonyms
Using a thesaurus
Spelling
Plurals and possessives
Kinds of sentences
Parts of sentences
Cursive handwriting
Outlining
Paragraph writing
Writing letters, stories, reports, poems, plays
Preparing a simple bibliography
Proofreading skills
Parts of a newspaper
Using study materials: keys, tables, graphs, charts, legends, library catalogs, index, table of contents, reference materials, maps

Health and Safety

Dental hygiene
Our water supply
Sewage disposal
Care of the eyes
Nutrition and diet
Diseases
Germ-bearing insects and pests
Community health resources
Elementary first aid
Bicycle and water safety
Preparing for puberty
Human reproduction
Substance abuse

Mathematics

Reading and writing numbers to 10 places
Mixed numbers
Sets of integers
Numeration systems
Addition, subtraction, multiplication, division of whole numbers
Fundamental processes: whole numbers and common fractions
Common and decimal fractions
Decimals to the thousandths
Ratio and percent
Exponents
Customary and metric measurements
Extension of geometric concepts
Word problems in daily life
Charts and graphs: picture, bar, line, and circle graphs
Concept of sampling

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6th Grade

Typical Course of Study

Social Studies

Global and regional studies
Countries and cultures of Africa, Latin America, Asia, Australia, the Pacific, and Europe
Native American cultures
The Roman Empire
Relationships among nations: customs, traditions and beliefs, political and economic systems
United Nations
Milestones in human achievement
Transportation and communication
World trade
Citizenship and social responsibility
World geography
Map and globe skills

Science

Classification of living things
Ecosystems
Ecology and the environment
Microbes
Algae and fungi
Human body
Food for growth and energy
Climate and weather
Recycling of resources
Elementary geology
Oceans
Electric and magnetic interactions
Electricity and its uses
Sound, light, and heat
Nuclear energy and radioactivity
Solar and geothermal energy
Conservation
Elements and compounds
Universe
Simple astronomy
Space and space travel
Scientific theory
Inventions and discoveries

Language Arts

Reading silently and skimming
Critical reading skills
Introduction to mythology
Types of literature
Lyric, narrative, dramatic poetry
Listening skills
Nonverbal communication
Extending dictionary skills
Vocabulary building
Homonyms, synonyms, antonyms
Using roots, prefixes, and suffixes
Spelling

Language Arts Cont.)

Concepts of noun, pronoun, verb, adjective, adverb
Sentence structure
Diagramming sentences
Cursive handwriting
Types of writing: narration, description, exposition, and persuasion
Simple note taking
Writing outlines, letters, factual matter (reports, newspaper articles), verse (limericks, ballads), creative prose (dairy, stories)
Bibliography building
Organization of a book
Using reference books and indexes
Using on-line information services, CED-ROM's, and other electronic reference materials

Health and Safety

Personal appearance
Dental health
Health maintenance
Our food supply
Exercise and fitness
Cure and prevention of common diseases
The heart
Accident prevention
Safety and first aid
The health professions
Understanding emotions
Coping with stress and anxiety
Preparing for puberty
Human reproduction
Substance abuse

Mathematics

Exponents
Operation of powers
Set of integers
Factoring
Fundamental operations with fractions and decimals
Fundamental operations with compound denominate numbers
Multiplying and dividing common fractions and mixed numbers
Relationship between common and decimal fractions
Problems in percent
Properties, identification, and construction of geometric figures
Identification and measurement of angles
Concepts of similarity, congruence, and symmetry
Scale drawings
Customary and metric measurement
Problem analysis
Interpreting graphs
Concepts of averaging and sampling
Use of calculators and computers

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7th Grade

Typical Course of Study

Social Studies

Lands and people of the Eastern Hemisphere
Prehistoric peoples
Greek, Roman, and Middle Eastern civilizations
The Middle Ages
Renaissance and Reformation
Scientific Revolution
Age of Reason (Enlightenment)
Industrial Age
Yesterday and today around the world: Europe, the Middle East, Africa, Asia, Australia, and the Pacific
World trade and resources
Contemporary problems and issues
Environment
World geography
Advanced map and globe skills

Science

Scientific classification
The cell
Heredity and genetics
Effects of weather and climate
Properties and uses of water
Atmosphere
Air pressure
Rocks, soil, and minerals
Ecology and environment
Conservation
Heat and temperature
Laws of motion
Energy
Scientific method
Laboratory techniques and safety

Language Arts

Improving reading skills
Literary terms
Novels, short stories, plays
Myths, legends, ballads
Types of poetry
Biography and autobiography
Planning and producing dramatizations
Speech activities
Listening skills
Refining dictionary skills
Spelling
Parts of speech
Person, number, gender of nouns and pronouns
Punctuation of conversation

(Language Arts Cont.)

Clauses and phrases
Compound sentences
Writing descriptions, reports, journals, and letters
Note taking and outlining
Extending reference skills: atlases, directories, encyclopedias, periodicals, on-line information services, CD-ROM's and other electronic reference material
Library organization

Health and Safety

Good grooming and posture
Dental health
Healthy habits and lifestyles
Exercise and fitness
Effects of stimulants and narcotics
Functions of the body
Circulation and respiration
Germ theory
Family life
Toxins and antitoxins
Antibiotics
Immunization
Chemotherapy
Genetic disorders
Personal and public safety
Accident prevention
Personality development
Substance abuse

Mathematics

Prime and composite numbers
Square root
Order of operations
Absolute value
Inequalities
Numeration
Properties of nonnegative integers
Rational numbers and fractions
Ratio, portion, percent
Finite, infinite and empty sets
Basic geometry concepts and terms
Development and use of formulas
Perimeter, circumference, area
Metric and customary measurement
Reading and constructing graphs
Measures of central tendency: mean, mode, median, range
Elementary business mathematics
Use of calculators and computers

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8th Grade

Typical Course of Study

Social Studies

Our African, Asian and European backgrounds
Exploration and discovery
Growth and development of the United States
*-Colonial life
*-Struggle for independence
*-U. S. Constitution and Bill of Rights
*-Westward movement in America
*-Reconstruction
*-U. S. as a world power
Meaning of democracy
Our American culture
U. S. political system
U. S. economic system
U. S. government
U. S. geography
Advanced map and globe skills

Science

Scientific method
Scientific nomenclature
Scientific measurement
Ecology and environment
Conservation
Composition of the earth
Ocean, atmosphere
Weather
Water and its uses
Weathering and erosion
Recycling of resources
Magnetism and electricity
Heat and light
Forces in liquids and gases
Wave, mechanical, electrical and nuclear energy
The earth's movement
Newton's three laws of motion
Machines
The atom
Periodic table of elements
Compounds and mixtures
Chemical changes
Astronomy
The universe and the Milky Way
Space and space travel

Language Arts

Independent reading
Literal, inferential, and evaluative reading skills
Novel, short story, narrative poetry
Nonfiction

(Language Arts Cont.)

Biographies of great Americans
American poets and storytellers
Creative dramatics
Listening and speech activities
Advanced dictionary work
Extended vocabulary
Figures of speech
Spelling
Infinitive, participle, gerund, predicate nominative, predicate adjective, direct and indirect object
Kinds of sentences and their parts
Functions of sentence elements
Writing simple business letters
Report-writing skills
Improving skills in using basic reference sources
Inductive and deductive reasoning

Health and Safety

Grooming
Functions of the body
The body's utilization of food
Types and functions of foods
Environmental hazards
Community sanitation and health
Health care services
Accident prevention, safety and first aid
Mental hygiene
Substance abuse

Mathematics

Maintaining skills in fundamental operations
Factoring and products
Sets and simple sentences
Numeration systems
Using fractions and decimals
Ratio, proportion and percent
Equalities and inequalities
Simple formulas and equations
Graphing an equation
Powers and roots of rational numbers
Polynomials
Metric and non-metric geometry
Pythagorean Theorem
Scale drawing
Right-triangle trigonometry
Customary and metric measurement
Permutation
Probability statistics
Statistical terms
Mathematics of insurance, banking and taxes

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9th Grade

Typical Course of Study

Social Studies (World Culture, Geography, etc.)

Basic human communities
Community, state, and national government
Political parties and elections
Comparative cultures and religions
African American, Hispanic, and other ethnic studies
Urban studies
Women in our history
Conservation, including human conservation
Resource management
Elementary economics
Labor and management
Taxation
Foundations of American democracy
U. S. Constitution
Rights and responsibilities of good citizenship
United Nations
World geography
Advanced map and globe skills

Science (Earth)

Earth's history
Earth science
Ecology and environment
Weather and climate
Air and air pressure
Air masses and fronts
Water and its uses
Erosion
Air and water pollution
Heats and fuels
Electricity and electronics
Solar and nuclear energy
Nature and uses of light
Simple and complex machines
Atomic structure
Chemistry of matter
Molecular theory
Nature and use of chemicals
Metals and plastics
Space and astronomy
Space travel
Nature and causes of disease

Language Arts

Evaluating material for accuracy
Reading the newspaper
Analyzing propaganda
Advertising
Drama and film

(Language Arts Cont.)

Analyzing poetry
Dramatic poetry
Using poetry anthologies
Novel and short story
Folklore and myths
Structure of a play
Parable and allegory
Interpretation of literature
Listening skills
Effective discussion techniques and questioning skills
Preparing a speech
Public speaking and debate
The unabridged dictionary
Vocabulary
Foreign words used in English
Grammar
Fundamentals of composition
Report writing
Extended reference skills
Special indexes

Mathematics

General mathematics

Ratio and proportion
Basic concepts of statistics
Mathematical vocabulary
Direct and indirect measurement
Banks and banking
Investment
Budgeting
Insurance
Taxation
Graphs and tables
Informal geometry
Elementary algebra
Customary and metric measurement

Algebra 1

Absolute value
Sets and their relationships
Properties of polynomial forms
Equations
Signed numbers
Fundamental operations
Equations of the first degree
Ratio, proportion, and variation
Relations and functions
Special products and factoring
Square roots
Radicals
Quadratic equations
Elements of probability

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10th Grade

Typical Course of Study

Social Studies (World History)

Prehistoric peoples
The earliest civilizations
The early Greeks
Early India and China
The Islamic world
The Middle Ages
African civilizations
Civilization in the Americas
The Renaissance
The rise and fall of monarchies
Birth of modern democracy
The French Revolution
The Industrial Revolution
Nationalism
Imperialism
Science and industry
The world wars
-World War I
-Between the wars
-World War II
The Cold War
The Vietnam War
The search for peace
Democratic ideals and values
The rise and fall of Communism
The collapse of the Soviet Union
World interdependence
World problems and issues
Role of women in today's societies

Science (Biology)

Characteristics of life
Classification
History of plants and animals
Microscopic life
Simple organisms: algae, bacteria, and fungi
Vertebrate life
Mammals and birds
Plant life
Photosynthesis
Cells
Protein synthesis
Genetics and heredity
DNA-RNA
Genetic engineering
Reproduction and growth
Human biology
Nutrition and digestion
Behavior
Consideration of human resources
Environmental issues
Energy in ecosystems
Scientific method

(Science Cont.)

Biology and space travel
Disease and disease control

Language Arts

American literary heritage
Cross-culture literature
Folklore and ballads
Regional customs, traditions, folkways and language
Literary interpretation and critique
Novel, short story and essay
Understanding poetry: lyric poetry and the sonnet
Drama
Distinguishing between fact and opinion
Persuasion and argumentation
Listening skills
Public speaking and debate
Extending dictionary skills
History of the alphabet
Vocabulary and etymology
Geographical dialects
Grammar
History of writing
Journal writing
Writing short stories, poetry and plays
Writing term papers
Constructing footnotes

Mathematics

Origins and uses of geometry
Terms, postulates, theorems
Sets
Nature of proof
Inductive and deductive reasoning
Ratio and proportion
Algebra in geometry
Angle relationships
Parallel and perpendicular lines
Congruent triangles
Right triangles
Pythagorean Theorem
Circles
Polygons
Relationships between circles and polygons
Measurement theory
Measurement of geometric figures
Simple Constructions
Loci
Transformational geometry
Introduction of symbolic logic
Coordinate geometry
Trigonometric functions of angles greater than 90 degrees
Special angle relationships
Problem solving with geometry

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11th Grade

Typical Course of Study

Social Studies (American History)

Age of exploration and discovery
Colonization of America
A new nation is born
Constitution of the United States
Development of a new nation
Period of nationalism
Sectionalism
American Civil War and Reconstruction
United States as a world power
Struggle for women's rights
World War I
The Great Depression
World War II
The Cold War
The nuclear era
Civil rights
Delinquency and crime
Psychology
Problems of mental health
Urbanization
Public education
Role of women in today's society

Science (Chemistry)

Matter and its behavior
Carbon and its compounds
Formulas and chemical equations
Acids, bases, salts
Atomic theory
Periodic law
Water and solutions
Chemical bonding
Molecular theory
Equilibrium and kinetics
Spontaneous reactions
Titration
Ionization and ionic solutions
Colloids, suspensions, and emulsions
Oxidation-reduction
Nonmetals
Metals and alloys
Electrochemistry
Energy: forms, chemical changes and measurements
Nuclear reactors and radioactivity

Language Arts

American literature
Cross-culture literature

(Language Arts Cont.)

Analysis of plays
Vocabulary of poetry
Critical and evaluative reading
Propaganda techniques
Mass communication
Advertising
Music and painting
Architecture and sculpture
Listening skills
Vocabulary development
Grammar
Story writing
Editorial writing
Journalistic writing
Proofreading symbols
Use of *Reader's Guide* and other reference aids, both print and electronic

Mathematics (Any)

Algebra II

Relations and functions
Square roots, surds, radicals
Rational roots
Linear equations and analytic geometry
Quadratic equations
Binomial theorem
Imaginary numbers
Exponents and radicals
Logarithms
Progressions
Higher-degree equations
Vectors
Determinants
Permutations, combinations and simple probabilities
Estimation and approximation

Trigonometry

Solutions of right triangles
Use of table and interpolation
Measurement of angles
Properties of trigonometric functions
Complex numbers and vectors
Concept of a limit
Graphs of functions
Solutions of oblique triangles
Logarithms
Identities and equations
General triangle solutions

12th Grade

Typical Course of Study

Social Studies (Government and Economics)

Principals of U. S. government
The democratic ideal
Basic documents of the U. S.
Agriculture in the U. S.
Urbanization
Conservation
Business and industry in the U. S.
American party system
Propaganda and public opinion
Comparative governments
Comparative economic systems
Consumer education
Crime and delinquency
Psychology
Labor-management relations
Economic concepts and theories
Taxation and finance
Distribution and exchange of goods and services
International relations
American foreign policy
International organizations
Public election
Women's role in today's society
Family economics and management

Science (Physics)

Physics
Electricity and magnetism
Photoelectric effect
Heat
Light and optics
Sound and acoustics
Wave motion
Quantum theory
Relativity
Force
Mechanics
Space, time and motion
Work, energy and power
Electronics
Nuclear energy
Nuclear physics
Solid-state physics

Language Arts

English literature
Shakespeare
Literary, social and political heritage of England
Literature of the 1900's
World literature
Cross-culture literature
The theater
Nature of tragedy and comedy
Techniques of acting
Film as an art form
Critical and evaluative reading
Current periodical literature
Mass communication
Comparative study of mass media
Radio and television

(Language Arts cont.)

Listening skills
Parliamentary procedures
Identifying verbals
Report writing
Writing social and business letters
Writing book reviews, précis, essays
Writing term papers
Bibliography development

Mathematics (any)

Calculus

Derivative of a function
Logarithmic and trigonometric functions
Indeterminate terms
Computation of derivatives
Rate of exchange of quantity
Maxima and minima
Integrals
Length of curves
Volume and surface area
Computer analysis of graphs

Probability and Statistics

Tubular data
Graphs
Measures of central tendency
Quartiles and percentiles
Measures of dispersion
Simple correlation
Statistical inference
Permutations
Combinations
Binomial theorem

Advanced Algebra

Sets of numbers
Binomial theorem
Progressions
Complex numbers
Theory of equations
Permutations
Functions and their graphs
Combinations
Probability
Determinants
Inequalities
Matrix algebra
Mathematical induction
The derivative

Computer Programming

Visual Basic
C+
C++
Java
Basic HTML
Intermediate HTML
Basic XML