

Homeschool Pro

<https://remotelearning.school/homeschoolpro.html>

Online Homeschool Curriculum

Homeschool Learning Outcomes

You can use the below learning outcomes as a guideline of what kids should know by grade level.

It is NOT meant to be used as an assessment, many kids learn and develop differently in different areas, they can advance quicker in some areas or slower in other areas and it is fine.

Some of the learning outcomes, especially at early ages, are learned naturally at home just by normal every day observations and interactions with the family as well as parent guidance.

Homeschool Pro classes may introduce many concepts earlier than in this chart when deemed that proper foundations have been instilled to successfully explore the new concepts.

I also encourage the student to explore the vast array of electives we offer and find topics they are passionate about to further expand their horizons:

<https://kids.remotelearning.school/collections>

Amelia Reid

Amelia Reid
Homeschool Advisor
Homeschool Pro

What Your Child Should Know By Grade Level

Kindergarten

SOCIAL STUDIES

- Meanings of holidays, traditions, and customs
 - Understanding and appreciating other cultures
 - Individual's role in family, home, and community
 - Relationship of the individual to the group
 - Work and jobs
 - Safety rules and symbols
 - Basic human needs
 - Self-respect and self-awareness
 - Awareness of others
 - 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 as the main energy source
 - Weather and seasons
 - Temperature
 - Light
 - Colors
 - Senses
 - Earth, moon, stars, planets
 - Simple measurement
 - Beginning experimentation
-

Language Arts

- Phonics
 - Choral reading
 - Listening to literature, music, poetry
 - Nursery rhymes, fairy tales, fables
 - Social listening
 - Constructing visual images while listening
 - Oral communication skills
 - Role play
 - Following and giving directions
 - 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
 - Safety
-

Mathematics

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

- Basic chart and graph concepts

- **1st Grade**

Social Studies

- Holidays, traditions, and customs
 - American Heritage (US)
 - Different cultures at different times
 - Family, neighborhood, community
 - Farm and zoo
 - Neighborhood helpers
 - Jobs and careers
 - Social skills and responsibilities
 - Basic geography terms
 - Making and reading a simple neighborhood map
-

Science

- Grouping and classification
 - Living and nonliving 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
 - Discussion skills: taking part in group discussion
 - Beginning dictionary skills: alphabetizing
 - Beginning spelling
 - Beginning grammar: nouns, verbs, adjectives
 - Introduction to punctuation and capitalization
 - Manuscript handwriting
 - Handling books
 - Using table of contents
 - Establishing sight vocabulary
-

Health and Safety

- Personal hygiene
 - Dental health
 - Good eating habits
 - Exercise and rest
 - Diseases
 - Common cold
 - Dressing for weather and activity
 - Safety rules
-

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 $\frac{1}{2}$ and $\frac{1}{4}$ 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

2nd Grade

- Social Studies

- Holidays and festivals
 - Patriotic celebrations
 - Communities in other lands: past and present
 - Family and family history
 - Families around the world
 - Neighborhoods
 - Community services and helpers
 - Shelters, stores, and food
 - Citizenship and social responsibility
 - 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 effects 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
 - 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 in manuscript form
 - Brief and simple letters and journals
 - Narration, description, 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, temperature
- Telling time and using the calendar
- Handling money (coins)
- Problem solving

- Charts and graphs

3rd Grade

- Social Studies
-

- Holidays and folk customs
- Native Americans
- Explorers and pioneers
- Appreciation of different cultures, races, 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, 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
- Alphabetizing through the third letter of a word
- Dictionary skills
- Developing word-attack methods
- Synonyms, antonyms, homonyms
- Spelling
- Beginning cursive writing
- Concept of paragraph
- Using period, comma, question mark, apostrophe, 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, clothing
 - Community health services
 - Home safety hazards
 - 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 equivalent
- Properties of one
- Numeration systems
- Addition and subtraction facts to 25
- Multiplication and division facts to 100
- Perimeter, area, volume
- Geometric constructions
- Similar and congruent figures
- Properties of solid figures
- Customary and metric measurement
- Time to 1- and 5-minute measures
- Estimation of outcomes
- Problems-solving analysis
- Word problems
- Charts and graphs

• 4th Grade

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, scale
 - Using a globe
-

Science

- Structure of plants
 - Environment of the local region
 - Biological organization
 - 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
 - Choral reading
 - Listening skills
 - Telephone skills
 - Making and accepting simple social introductions
 - Summarizing simple information
 - Listening to literature
 - Critical reading
 - Short stories, chapter books, poetry, 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 food 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 graph

- **5th Grade**

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, 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 electricity
 - 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
 - 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
- Set 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

- **6th Grade**

- 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
- Concepts of noun, pronoun, verb, adjective, adverb

- Sentence structure
 - Diagramming sentences
 - Cursive handwriting
 - Types of writing: narration, description, exposition, persuasion
 - Simple note taking
 - Writing outlines, letters, factual matter (reports, newspaper articles), verse (limericks, ballads), creative prose (diary, stories)
 - Bibliography building
 - Organization of a book
 - Using reference books and indexes
 - Using on-line information services, CD-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 the 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

7th Grade

- Social Studies

- Lands and peoples 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

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
- 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-ROMs
- 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
- Sexually transmitted diseases
- 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, proportion, 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

8th Grade

- 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
- American Civil War
- 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 Milky Way
- Space and space travel

Language Arts

- Independent reading
- Literal, inferential, and evaluative reading skills
- Literary terms
- Novel, short story, narrative poetry
- Nonfiction
- 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
 - Sexually transmitted diseases
 - 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 nonmetric geometry
- Pythagorean Theorem
- Scale drawing
- Right-triangle trigonometry
- Customary and metric measurement
- Permutations
- Probability statistics
- Statistical terms
- Mathematics of insurance, banking, and taxes

9th Grade

Social Studies

- 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'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
 - 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
- Algebra 1
- 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
- Absolute value
- Sets and their relationships
- Properties of polynomial forms
- Equations
- Signed numbers
- Fundamental operations
- Equations of the first degree
- Ratio, proportion, variation
- Relations and functions
- Special products and factoring
- Fractions and fractional equations
- Square roots
- Radicals
- Quadratic equations
- Elements of probability

10th Grade

Social Studies

- 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 world 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

- Characteristics of life
 - Classification
 - History of plants and animals
 - Microscopic life
 - Simple organisms: algae, bacteria, 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
 - Conservation of human resources
 - Environmental issues
 - Energy in ecosystems
 - Scientific method
 - Biology and space travel
 - Disease and disease control
-

Language Arts

- American literary heritage
- Cross-cultural 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
 - Techniques of writing
 - Journal writing
 - Writing short stories, poetry, and plays
 - Writing term papers
 - Constructing footnotes
-

Mathematics

- Geometry
- 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
- Mensuration 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

11th Grade

Social Studies

- 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
- Titrations
- Ionization and ionic solutions
- Colloids, suspensoids, and emulsoids
- Oxidation-reduction

- Nonmetals
 - Metals and alloys
 - Electrochemistry
 - Energy: forms, chemical changes, and measurement
 - Nuclear reactions and radioactivity
-

Language Arts

- American literature
 - Cross-cultural literature
 - 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
 - Writing term papers
 - Proofreading symbols
 - Use of Reader's Guide and other reference aids, both print and electronic
-

Mathematics

- Algebra II
- Trigonometry
- 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 probability
- Estimation and approximation
- 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

Social Studies

- Principles 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 education
- Women's role in today's society
- Family economics and management

Science

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

Mathematics

- Calculus
- Derivative of a function
- Logarithmic and trigonometric functions
- Indeterminate terms
- Computation of derivatives
- Rate of a change of quantity
- Maxima and minima
- Integrals
- Length of curves
- Volume and surface areas
- Computer analysis of graphs
- Probability and Statistics
- Tabular 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 inductions
- The derivative
- Computer Programming



Homeschool Pro

<https://remotelearning.school/homeschoolpro.html>
Online Homeschool Curriculum