



LIBERIA MEDIA FOR DEMOCRATIC INITIATIVES

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Dialoging for Peace, Democracy & Development in Liberia

LANGUAGE ARTS

English

- Paragraphs, Spelling, Definition and Word Usage
- Clauses and Verb Agreement
- Sentence Structure and Sentence Purpose
- Conjunction and Grammar
- Parts of Speech and Modifiers
- Library Systems

References:

***English Books, Composition and Grammar
Students Companion
Dictionary***

LITERATURE

1. African Writer Series
2. other writer series
3. Figure of Speech
4. Figurative Expressions

SOCIAL STUDIES

1. HISTORY

Liberia History
National Anthem of Liberia
National Symbols of Liberia
National Song of Liberia
National distinguished Awards of Liberia
former Presidents and their contributions to Liberia

WORLD HISTORY

- Ancient Discoveries of China, or Egypt, or Mesoamerica, or India or any other Civilization
- Weapons of an ancient Civilization
- Aristotle, Socrates, Plato, Shakespeare, Napoleon Bonaparte, Martin Luther, Sundiata, Mansa Musa, Herodotus, Adam Smith
- Reformation and Magna Carta
- Renaissance and Rosetta Stone
- French Revolution

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- Hundred Year's war
- Leprosy
- Muslim Leaders and Empires
- Persia-Persian Wars
- Mummification
- Nile River and Timbuktu
- Mayflower
- The Crusades and Tower of Babel
- Oligarchy and Aristocracy
- Democracy and Direct Democracy
- Theocracy and Autocracy
- The Great wall
- Paleolithic Age and Neolithic Age
- Olympia and Olympics
- Nomads
- Tigris and Euphrates River
- Migration
- math and science discoveries
- belief and practices of Islam
- Empires of the Ancient World
- Hinduism and Buddhism
- Kingdom and Trading states in Africa
- Europe, Asia, Americans and Africa
- World War I
- World War II

AFRICA HISTORY

West Africa since Independence
West Africa and the Wider World
West Africa and Europe
The Trans-Saharan Trade
The Sudanese States and Empires
The Songhai Empire
The Scramble for and the partitioning of Africa
The rise of national in West Africa
The rise and fall of Mali
The nineteenth-century Jihads
The Independence revolution in West Africa
The coming of the Europeans
The Colonial Powers and West Africa
The Atlantic Slave Trade and its effects

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The Abolition of the Asante Empire
Social Developments
Social Developments
Political and Constitutional Developments
Islam in West Africa
Economic Developments
Ancient Ghana

References:

World History

Story of Nations

Liberian History of the first Republic

West African History

GEOGRAPHY

Countries, Capital and Currencies
Structure of Universe
Settlements
Soil
Subsistence & Commercial Farming
Pressure and wins of the Atmosphere
Solar System
Major land forms
Wealth & Climate
Internal Processes of Land from Development & External
Oceans and its types
Fishing, Lumbering and Animal Farming
Water Cycle and Ground Water
Weathering and Mass Weathering
Earthquakes & Volcanoes
Hydroelectric Power
Irrigation & Reclamation

REFERENCES:

General Diagram in Geography

Comprehensive Geography

ECONOMICS

Scarcity
Scale of Preference
Opportunity Cost
Mode
Median
Meaning of economics & Basic Concepts
Mean
Histogram



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Choice
Central Tendency
Branches of Economics
Pie Chart
Basic Tools for Economic Analysis
Basic Economics goals and Problems of Scarcity
Production
Goods
Land
Capital
Labor
The Law of diminishing Returns
Concepts of total, Average and Marginal
Division of labor, specialization & scale of production

MARKET AND ITS TYPES

Business Organization, Firm
Sole Proprietorship and Partnership
Shares and Debentures Trade
Market and Mobility
Supply and Types, Demand and Types
Trade, Retailer, Wholesaler and Middlemen

POPULATION

- Migration
- Various Economic Theories

ECONOMIC SYSTEM

Capitalist its features and Socialist and its features
Mixed Economics & its Features
Theory of cost
Theory of consumer and Theory of demand
Theory of supply

Reference:

Modern Economics Books

GENERAL SCIENCE

Basic Principles in General Science

- Structure of Matter
 - Elements, compounds, and mixture
 - Atoms, molecules, and ions

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- Basic properties of Solids, liquids, and gases
- Basic Structure of atom
 - Atomic models
 - Atomic structure including nucleus, electrons, protons, and neutrons
 - atomic number, atomic mass, isotopes
 - electron arrangements
- Basic characteristics of radioactive materials
 - radioisotopes
 - radioactive decay processes and half-life
 - Characteristics of alpha particles, beta particles, and gamma radiation
 - fission and fusion
- Basic concepts and relationship involving energy and matter
 - conservation of energy (first law of thermodynamics)
 - entropy changes (second law of thermodynamics)
 - conservation of matter in chemical systems
 - kinetic and potential energy
 - transformation between different forms of energy
 - various temperature scales (Celsius, Fahrenheit, Kelvin)
 - Transfer of thermal energy and its basic measurement
 - conduction, convection, and radiation, specific heat capacity
- Periodicity and states of matter
 - periodic table of the element
 - symbols of elements
 - States of matter and factors that affect phase changes
 - ideal gas law
 - phase transitions and energy changes (heat of vaporization, heat of sublimation, phase diagram, heat curves)
 - Chemical nomenclature, composition bonding
 - name of simple compounds and their chemical formulas
 - mole concept and its applications, Avogadro's number
 - molar mass and percent composition
 - Acid base chemistry
 - chemical and physical properties of acids and bases
 - pH scale
 - neutralization
 - acid-base indicator
 - solutions and solubility
 - Mechanics

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- description of motion in one and two dimensions
- speed, velocity, acceleration
- displacement
- linear momentum
- vector and scalar quantities
- Newton's three laws of motion
 - 1st law: inertia
 - 2nd law: $F=ma$ (i.e, net force, mass, and acceleration)
 - 3rd law: action-reaction forces
- mass, weight, and gravity
- Analysis of motion and forces
- Simple machines
 - types of simple machines
- Basic characteristic and types of waves
- Basic electric concept
- Basic wave phenomena
 - reflection, refraction, diffraction and dispersion, absorption and transmission
- Basic optics
 - mirrors, lenses and their application
- Sound
- Basic structure and function of cells and their Organelle
- Key Aspects of Cell Reproduction and Division
- Basic Biochemistry of life
- Basic Genetics
- Theory and Key Mechanism of Evolution
- Hierarchical Classification Scheme
- Major Structure of Plants and Their Functions
- Basic anatomy and physiology of Animals, including the human body
- Key Aspects of Ecology
- meteorology and Climate
- Astronomy
- Earth's Bodies of Water
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REFERENCE:

Modern Biology

Modern Chemistry

Modern Biology

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MATHEMATICS

Algebra

History on Mathematics

Definitions of key mathematical Terminologies Numbers and Basic Arithmetic operations

Sets, Factor, Common Factors, Least Common Multiples, Greatest Common Factors

Prime factor Bases, Conversion of Number Bases, Additions, Subtractions multiplication of number bases , Fractions and Decimals, Additions, Subtraction, Multiplication of number bases

Fractions and Decimals

Addition, Subtraction, Multiplication and division of fractions

Conversion of fractions to decimal and vice versa

Approximation of significant figures

Exponential Notations, Commercial and Financial Arithmetic

Ratio and Proportions and rates

Averages speed, Mean or average

Percentage, Profit

Loss, Cost price, selling price, Discount, Commission, Interest, Principal, Time, Rate, Amount

Simple interest and Compound interest

Tax

Depreciations and Amortizations

Capital market instruments

Radical Notations, Simplifying Radicals

Roots, Logarithm

Series and Sequence

Functions and Relations, Linear Equations

Slope, Midpoint, Discriminant

Simultaneous Linear Equations Inequalities

Factors and Factorization

Monomial and Binomial, Polynomial

Algebraic expressions, Lateral equations

Quadratic equations

Variations, Direct, Indirect

Partial, Join

Geometer, Measurement, Triangular and Quadrilateral

Perimeter, Area, Circular Measurement

Arc, Circumference, Radius, Diameter, Area

Radian and Degree Measurement, Solid Shapes Pyramids, Cylinder

TYPES OF ANGLES

Acute Angle, Obtuse Angle, Reflex Angle, Complementary Angles and Supplementary Angles

Triangles and Circle

Parabola and Hyperbola

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PROBABILITY

Outcomes of an experiment

Equally likely outcomes

Finding the probability of an outcome

Reference

Algebra Book

Trigonometry Book

Geometry Book

CURRENT EVENTS

1. World and African Leaders
2. World and African News
3. Politics
4. Ministries and Agencies
5. Counties and Superintendents
6. World and African Leaders, currencies
7. Others

