

12-15 General Scope and Sequence

Language

VOCABULARY DEVELOPMENT

- Idioms and Comparisons
- Vocabulary development via roots and word parts
- Vocabulary definition strategies
- Singular/Plural – regular/irregular
- Spelling Rules
 - Memorization
 - Visualization
 - Syllabication
 - Etymology
 - Prefix/suffix/phonograms

LANGUAGE CONVENTIONS

- Identification of all parts of speck – verbs, nouns, pronouns, adjectives, adverbs, prepositions, conjunctions, and interjections
- Infinitives
- Modifiers
- Subordinate clauses
- Comma, apostrophe, quotation marks, semi colon, colon, dash, parenthesis
- Compound and complex sentences

PRESENTATIONS

- Eye contact/voice/time/clarity
- Active listening
- Asking questions & providing feedback
- Organization

READING/LITERATURE

- Author's purpose
- Literature assessment (critique of adequacy, accuracy, and appropriateness) - including supportive information from book
- Comparison of literary reviews
- Events leading to plot, characterization, themes – What are influences on these things?
- Summaries, outlines, notes, diagrams
- Sequence
- Conclusions/cause and effect
- Reading
 - poetry – compare forms
 - plays
 - fiction
 - biographies/autobiographies
 - newspaper
 - technical manuals
 - History in fiction (examples)
- Point of view

WRITING SKILLS

- Paragraphs
 - topic sentence
 - use of transitions
 - clear, consistent focus
 - thesis statement
- Figurative language
 - use of similes, metaphors, hyperboles, personification, symbolism, imagery, alliteration, idioms
- Writing for a specific audience
 - Organization
 - Style
 - Word choice
- Essays – written (some to present)
 - responses to literature
 - informational
 - narrative - biographical and autobiographical
 - descriptive
 - expository
 - persuasive
- Revision
 - Meaning and clarity
 - Proofreading – own and peer
 - Organization and word choice

RESEARCH SKILLS

- Use of various research materials including consumer and public documents
- Bibliography & correct citations in writing
- Use of and identification of validity in the following:
 - table
 - chart
 - graph
 - map
 - pictures
 - diagrams
- Understanding the restriction of plagiarism

Cultural Studies

GEOGRAPHY

- Climactic relationships with Earth and sun
- Maps
 - Compare types of projections
 - Compare topographic and thematic
 - Name major mountain ranges, river systems, countries, and cities in Africa, Asia, and SW Pacific
 - Cultural regions of Africa, etc.
 - Locate and map climate regions of Eastern Hemisphere – explain why they differ

HISTORY

- Earth history timeline
- Chinese timeline (including dynasties and early civilizations)
 - Advances in society
 - Japan gaining independence
- Civilizations
 - African – sub Saharan
 - Muslim – effect on Africa
 - Japanese – shogun and warrior class, feudalism, rise of military society
 - Tigris, Mesopotamia, Egypt, Kush
 - Mayas, Toltecs, Aztecs, Incas
 - Where did they go?
- Trace European voyages leading to colonization of Asia and Southwest Pacific
- Important documents – history of and event leading to:
 - Magna Carta(1215)
 - Petition of Right(1628)
 - English Bill of Rights (1689)
 - Declaration of Independence (1776)
 - Monroe Doctrine (1823)
- Political parties – Federalists, Democratic Republicans, etc. – identify individuals who influences developments
- U.S. Timeline from 1750-1877
- Wars & Significant events:
 - French and Indian (1754-1763)
 - Revolutionary War (1775-1783)
 - War of 1812
 - Louisiana Purchase (1803)
 - Missouri Compromise (1820)
 - Mexican War (1846-1848)
 - Civil War & Gettysburg Address

GOVERNMENT

- Forms – unitary, federal, confederate
- Functions of the following:
 - European Union
 - Organization of American States
 - The World Court
 - North Atlantic Treaty Organization
 - United Nations
- Impact of democracy on Europe and the Americas
- Compare different forms of Government – esp. in Africa, Asia, and SW Pacific
- Role of the citizen – definition of citizenship
- Specifically American – 3 tiers; compare local, state, and federal; individual rights; jobs of congress, president, etc.
- Types of elections – citizen participation

ECONOMICS

- Benefits of trade and trade barriers - Gross domestic product
- Connect local community to country as a whole
- How do countries know what to produce, how, and for whom?
- Economic systems – traditional, command, market
- Research of entrepreneurs, inventors, and others – ie: Alexander Hamilton, Lewis and Clark, Eli Whitney, Samuel Gompers, etc.
- Compare/contrast savings options and uses
- Advantages and disadvantages to credit
- Compare and contrast the different job skills needed in different time periods of U.S. history

Math

NUMBER SENSE

- Scientific notation
- Rational vs irrational – show on a # line
- Absolute value
- Exponents & application of square roots (involves prime factorization) – (-) integer exponents
- Terminating decimals – conversions
- Application of percentages – increase/decrease, computation, estimation

PROBLEM SOLVING/ALGEBRA

- Terminology – variable, equation, coefficient, term, inequality, expression, and constant
- Systems of linear equations – writing and solving via substitution and graphing
- Solving for 2 variables
- Slope and vertical change – from graph and from formula given – draw graph given slope and one point
- Identify and describe functions
- Simple and Compound interest
- Quadratic functions

MEASUREMENT

- Conversion – ie: inches to feet, hours to minutes
- Use of pi – circumference
- Formulas – perimeter, area, etc.

GEOMETRY

- Plotting shapes – finding lengths, areas, translations, transformations
- Pythagorean Theorem – test
- Properties of shapes – altitudes, diagonals, angle and perpendicular bisectors, central angles, radii, diameters, and chords – also do constructions of segments and angles

GRAPHING

- Graph ordered pairs
- Graph/identify a linear function
- Translations and Reflections
- Slope

DATA ANALYSIS

- Stem and Leaf Plots and frequency tables – make predictions from info given – explain how they can be misleading
- Mean/median/mode/quartiles/outliers
- Probability of future events – P and 1 – P
- Read/produce bar, line, and circle graphs – make predictions – explain validity

Scientific Reasoning

LIVING ENVIRONMENT

- Organisms
 - Bacteria
- Ecosystems
 - Interdependence
- Food webs
 - Producers, Consumers, Decomposers
 - How does it work
 - What types of things affect a food web?

BOTANY

- Use of energy from light to make sugars
- Plants making carbon dioxide

CELL BIOLOGY

- Comparison of cells – plant, animal, bacteria, virus, ryan.
- Mass of a cell
- Food Production
- Reproduction
 - chromosomes
- Functions of organs inside cell

EARTH SCIENCE

- astronomy
 - phases of the moon
 - Proportions of planets in comparison to one another
 - Rocks orbiting Earth
 - Gravitational forces
- minerals
 - those that are rare and those in great quantities
- water
 - cycle
 - fresh vs salt
 - oceans – effect on climate, motions, limited capability to absorb waste
- human activities
 - affects on our planet
 - pollution
 - deforestation
- natural disasters – how they occur and effect on planet
- sedimentary rock
 - aging of the Earth
 - how does it form
 - fossils
- biomes

CHEMISTRY

- matter/forces/gases/changes/solution
- heat/acid or base/periodic table
- proton/neutron/electron/molecule/atomic diagram
- reaction rates from heat resulting in food spoilage
- atoms – drawings and models

PHYSICS

- electricity/magnetism/gravity
- buoyancy/balance/flight
- simple machines/inertia/motion
- obtaining, transforming, and distributing energy
- speed through different materials
 - light
 - sound
 - comparison of types of waves
- Forms of energy
 - Formula for “work”

EXPERIMENTATION

- Testing via Scientific Method
- Incorporating charts and graphs into data
- Write clear procedures

Wellness

FITNESS/WELLNESS

- Personal skills
- Team/cooperative skills/sports
- Muscle tone/endurance
- Calories needed compared to weight, age, sex, etc.

HEALTH

- Care of self/grace and courtesy
- Food-nutrition/fat/sugar/sodium, etc.
- Parts of body/organs/blood cells
- Diseases/Disorders-causes/treatments
- Genetics/family–sexual wellness/drugs/alcohol
- Changes in life – from sanitation, disease prevention
- Affects on body from viruses, bacteria, fungi, parasites
- Antibodies – white blood cells
- Environmental affects on human body
- Black Death (bubonic plague)
- Food production technologies – how does this affect health?

LIFE SKILLS

- Exploration of career choices
- Compare consumer products
- Job skills needed to be successful

ARTISTIC IMPRESSION/AESTHETICS

- Artistic forms – drawn/dimensional
- Dance/drama/creative movement
- Music forms/music concepts/music appreciation

