

# 10<sup>th</sup> 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

- \* 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

