

## **English**

1. The English examination will consist of questions covering:
  - a. Grammar and usage: eight parts of speech, phrases, clauses, agreement, etc.
  - b. Vocabulary in context and spelling recognition
  - c. Mechanics: capitalization and punctuation
  - d. Library: research techniques, bibliography, footnote forms
  - e. Diagramming
2. No composition will be required.
3. No questions pertaining to literature will be asked.

## **Algebra I and Algebra II/Geometry**

1. The examination will consist of questions covering:
  - a. Algebra I (will be in the Algebra I test only)
  - b. Algebra II
  - c. Geometry

## **Advanced Mathematics**

1. The examination will consist of questions covering:
  - a. Trigonometry
  - b. Analytical Geometry
  - c. Permutations, Combinations, and Probability
  - d. Pre-Calculus
  - e. Theory of Equations
  - f. Sequences and Series
  - g. Statistics
  - h. Limits
  - i. Advanced Algebra
  - j. Function Analysis
  - k. Matrix Algebra
  - l. Vectors
  - m. Complex Numbers

## **Biology**

1. The examination will consist of questions covering:
  - a. Cells
  - b. Protozoa
  - c. Algae and Fungi
  - d. Plants
  - e. Genetics
  - f. Vertebrate and Invertebrate Physiology
  - g. Human Anatomy
  - h. Fossils

## **Chemistry**

1. The examination will consist of questions covering:
  - a. Matter and Energy
  - b. Atoms
  - c. Formulas and Equations

- d. Gases, Liquids, and Solids
- e. Periodic Table Families
- f. Equilibrium
- g. Chemistry Laws
- h. Acids and Bases
- i. Metric Units
- j. Scientific Methods
- k. Chemical Bonding

### **Physics**

1. The examination will consist of questions covering:
  - a. Motion and Energy
  - b. Metric Units
  - c. Light
  - d. Electricity
  - e. Heat
  - f. Magnetism
  - g. Physics Laws
  - h. Sound

### **World History/Geography**

1. The examination will consist of questions covering:
  - a. World History
  - b. World Geography

### **U.S. History/Geography**

1. The examination will consist of questions covering:
  - a. United States History
  - b. United States Geography

### **Accounting**

1. The test will center upon terminology, theory, and short problems.
2. A calculator is needed. See rules above regarding allowable calculators.
3. The examination will consist of questions which may be drawn from any of these topics:
  - a. Accounting systems: journal entries including basic entries, adjusting entries (accruals and deferrals), and closing entries; subsidiary ledgers; generally-accepted accounting principles
  - b. Financial statements: classification of accounts, preparation of statements, financial/ratio analysis, basic auditing concepts
  - c. Assets: cash and bank reconciliations, receivables and bad debts, inventory and cost of goods sold, fixed assets and depreciation, cost principle
  - d. Liabilities and owners' equity (proprietorships, corporations): purchases on credit, issuance of stock, retained earnings
  - e. Revenues/gains and expenses/losses: realization principle, matching principle

### **Home Economics**

1. The examination will consist of questions covering:
  - a. Food and Nutrition
  - b. Clothing
  - c. Housing and Home Furnishings

### **Political Science/Economics**

1. The examination will consist of questions covering:
  - a. General principles of political science, including the nature and historical development of the various types or forms of governments in the world
  - b. The nature and historical development of the United States government
  - c. General principles of free enterprise economic theory

### **Music Theory**

1. The examination will consist of questions covering:
  - a. Major and Minor Key Signatures
  - b. Major and Minor Scales
  - c. Harmony
  - d. Part-writing
  - e. Figured Bass
  - f. Cadences
  - g. Rhythm and Time Signatures
2. The test does not include melodic dictation or aural recognition.

### **Spanish**

1. The examination will consist of questions covering:
  - a. Grammar and Usage
  - b. Vocabulary
  - c. Conjugation and Agreement
  - d. Spanish-to-English translation and English-to-Spanish translation

### **Old Testament Bible Knowledge**

Competition in this category will test knowledge of factual or objective material (rather than interpretative), from pre-assigned Old Testament books.

2020 - Nehemiah, Daniel, Jonah

### **New Testament Bible Knowledge**

Competition in this category will test knowledge of factual or objective material (rather than interpretative), from pre-assigned New Testament books.

2020 - 1 & 2 Peter, 1, 2, & 3 John, Jude, Revelation