

## GED Preparation

Self-Paced, Personalized Instruction



Brainchild's GED programs provide personalized learning. Each student moves at his or her own pace.

- Play multimedia lesson
- Study with immediate feedback
- Test to track progress

Thousands of Study Buddies are in alternative high schools, youth development centers, and correctional facilities.

- Durable (10 years of service)
- Cost-Effective
- Self-Contained (no Wi-Fi)

**Mathematics**

**Language Arts**

**Science**

**Social Studies**

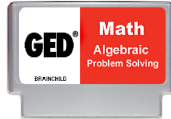
Brainchild's patented learning process of **PLAY LESSON, STUDY, TEST** helps students help themselves. Students build confidence and self-esteem as they tackle HISET questions and see the step-by-step solutions. Immediate feedback provides personal and gentle self-paced instruction.

*"We immediately noticed an increase in GED pass rates with Study Buddies."*

-Page Holmes-Ames, Transition Specialist, GED Test Facility

# GED Lessons

Each cartridge contains over 1,000 GED questions and solutions!  
Mastery of these lessons is a powerful indicator of GED success.



## Algebraic Problem Solving

### Expressions & Polynomials

- A1a. Simplify Expressions
- A1b. Evaluate Linear Expressions
- A1d. Add-Subtract Polynomials
- A1e. Factor Polynomials

### Equations & Inequalities

- A2a. Solve Equations
- A2c. Write Equations
- A2d. Simultaneous Equations
- A3d. Graph Inequalities
- A4a. Quadratic Equations

### Graphs and Functions

- A5a. Coordinate Plane
- A5b. Slopes of Lines
- A5c. Slopes as Rates
- A7b. Functions and Relations
- A7d. Compare Functions

### Lines and Equations

- A6a. Point-Slope Equations
- A6b. Equations of Lines
- A6c. Parallel-Perpendicular Slopes

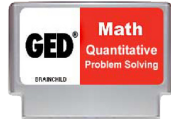
## Quantitative Problem Solving

### Number Sense Concepts

- Q1a. Order Fractions & Decimals
- Q1b. Multiples & Factors
- Q1c. Laws of Exponents
- Q1d. Absolute Value

### Counting & Probability

- Q8a. Combinations
- Q8b. Simple-Compound Probability



## Quantitative Problem Solving

### Operations

- Q2a. Add-Subtract Decimals
- Q2a. Multiply-Divide Decimals
- Q2a. Add-Subtract Fractions
- Q2a. Multiply-Divide Fractions
- Q2a. Add-Subtract Signed Numbers
- Q2a. Multiple-Divide Signed Numbers
- Q2a. Squares & Square Roots

### Ratios, Rates & Percents

- Q3a. Unity Rates
- Q3b. Scale Factors
- Q3c. Ratios & Proportions
- Q3d. Computer Percents

### Dimensions of 2D Figures

- Q4a. Triangles & Rectangles
- Q4b. Circle Measurements
- Q4c. Polygon Measurements
- Q4d. Composite Figures
- Q4e. Pythagorean Theorem
- Q5a. Volume-Surface Area
- Q5b. Surface Area

### Dimensions of 3D Figures

- Q5a. Rectangular & Right Prisms
- Q5b. Cylinders
- Q5d. Right Pyramids & Cones
- Q5e. Spheres

### Data Displays

- Q6a. Bar & Circle Graphs
- Q6b. Box Plots
- Q6c. Scatter Plots

### Central Tendency

- Q7a. Mean, Median, Mode
- Q7a. Weighted Average



## Science

### Life Science

- Plant & Animal Cells
- Plant & Animal Structures
- The Matter Cycle
- Cells, Organs, Systems
- Inherited & Learned Behaviors
- Adaptations
- Biodiversity
- Ecosystems & Food Webs
- Life Cycles-Metamorphosis
- Photosynthesis & Respiration
- Classifications-Dichotomous Keys

### Physical Science

- Atomic Theory
- Periodic Table
- Properties of Matter
- Chemical & Physical Changes
- Chemical Reactions
- Energy Forms
- Force & Motion
- Noncontact Forces
- Speed, Velocity, Accelerations
- Electricity & Electromagnetism
- Wave Properties

### Earth & Space Science

- Earth's Systems & Spheres
- Earth's Layers
- Tectonic Plates
- Topographic Maps
- The Water Cycle
- The Rock Cycle
- Weather & Climate
- Natural Resources
- Earth in Space
- The Solar System
- Stars & the Univers



## Language Arts

### Reading

- Reading
- Summarization
- Main Idea-Theme
- Details
- Sequence
- Inferences
- Plot Elements
- Cause and Effect
- Author's Purpose / Point of View
- Validity
- Figurative Language
- Words in Context

### Writing Conventions

- Spelling
- Capitalization
- Punctuation-Commas
- Subject-Verb Agreement
- Pronouns-Antecedents
- Misplaced Modifiers
- Fragments & Run-Ons
- Conjunctions
- Possessive Nouns



# GED Social Studies



Available on the web and Study Buddy Cartridges

## Civics & Government

### Articles of Confederations

The "First Constitution" approved by the Second Continental Congress to establish the functions of the national government after independence from Great Britain.

### Declaration of Independence

The Preamble, the Statement of Human Rights, Charges Against Human Rights, Charges Against the King and Parliament, and Statement of Separation and Signatures.

### U.S. Constitution

Preamble, articles, amendments, and the amendment process. Expressed, implied, and inherent powers. How it addressed deficiencies of the Articles of Confederation.

### Branches of Government

Executive, legislative, and judicial branches and examples to illustrate and understand the system of checks and balances.

### Bill of Rights

Natural law, motives, review and analyses of the first ten amendments.

### Voting Rights and Amendments

The 15th, 19th, 24th and 26th amendments.

### Federal & State Powers

Supremacy clause, coin money, regulate commerce, declare war. Exclusive and shared powers of federal and state governments.

### Civic & Political Participation

Rights and responsibilities of citizens, running for office and supporting political candidates.

## Geography

### Places & Regions

5 geographical regions of the world and regions of the U.S., oceans, landforms, time zones and more.

### Environment & Society

Industrialized regions, agricultural regions, how natural resources affect local economies & business. Spatial patterns.

### World in Spatial Terms

Hemispheres, latitudes and longitude, equator, prime meridian, scale measurements.

### Physical Systems

Weather systems, climates, natural events. Maps, charts, tables.

### Human Systems

Human settlement patterns, populations, ethnicities & cultures.

## American History

### Early America: Colonizations

Explorations and colonies established by England, Spain, Portugal, and France. Jamestown, Massachusetts Bay.

### The 13 Colonies

Economic, geographic, and religious features of the New England, Middle and Southern colonies.

### American Revolution

The Quartering Act, Battles of Lexington and Concord, Boston Tea Party, Boston Massacre, effects of the French & Indian War.

### Westward Expansion

Manifest Destiny, Louisiana Purchase, Lewis and Clark, Transcontinental Railroad, Trail of Tears, Treaty of Paris, Mexican-American War.

### War of 1812

America vs. Great Britain again. Induction of sailors into British Royal Navy, economic blockades, British support of Indian Tribes.

### Jacksonian Era

"Era of Common Man." White male suffrage, Manifest Destiny, Indian Removal Act of 1830.

### Civil War

Abolition of slavery, secession of 11 states, the North-South economies, states' rights.

### Reconstruction

Readmission to the Union and rebuilding the South after the Civil War. Redress of slavery, political, economic challenges.

## Economics

### Free Market Economics

Producers and consumers. Pricing, supply and demand, equilibrium, opportunity costs. Competition and monopolies.

### Economic Systems

Capitalism, Socialism, and Communism. Alternative ways to use resources to produce and distribute goods & services.

### Economic Cycles

Inflation, deflation, recession, depression. Expansion, peak, contraction, trough.

### Global Economics

Free trade, economic interdependence, tariffs, barriers to trade, globalization and comparative advantage.