Kahn Academy Lessons for MoGEA Review

**Social Sciences Test**

*Inquiry and Literacy Skills Section*

**History, Geography, Culture and Society Section**

Crash Course: World History [https://www.khanacademy.org/humanities/history/CrashCourse-WorldHistory](https://www.khanacademy.org/humanities/history/CrashCourse-WorldHistory) This can be used to jog your memory about key events in history.

United State History: [https://www.khanacademy.org/humanities/history/history-survey](https://www.khanacademy.org/humanities/history/history-survey)

- U.S. History Overviews 1, 2, and 3

**Key Events in History**

[https://www.khanacademy.org/humanities/history/euro-hist](https://www.khanacademy.org/humanities/history/euro-hist)

- Causes of World War I
- The Cold War
  - Korean War overview
  - Cuban Missile Crisis
  - Vietnam War

[https://www.khanacademy.org/humanities/history/1600s-1800s](https://www.khanacademy.org/humanities/history/1600s-1800s)

- US Declaration of Independence
- French revolution

**Government, Civics and Economics Section:**

**American Civics:**

[https://www.khanacademy.org/humanities/american-civics-subject](https://www.khanacademy.org/humanities/american-civics-subject)

- Electoral College

**Economics:**

[https://www.khanacademy.org/economics-finance-domain/microeconomics](https://www.khanacademy.org/economics-finance-domain/microeconomics)

- Supply, demand, and market equilibrium lesson

[https://www.khanacademy.org/economics-finance-domain/macroeconomics](https://www.khanacademy.org/economics-finance-domain/macroeconomics)

- GDP: Measuring national income
• Inflation- measuring the cost of living
• Aggregate demand and aggregate supply

**Sciences Test**

Biology: [https://www.khanacademy.org/science/biology](https://www.khanacademy.org/science/biology)

• Cells
• Cell division
• Heredity and genetics
• Tree of Life
• Cellular respiration
  o Introduction to cellular respiration
  o Electron transport chain
• Photosynthesis
• Human Biology


Chemistry: [https://www.khanacademy.org/science/chemistry](https://www.khanacademy.org/science/chemistry)

• Introduction to the atom
• Orbitals and electrons
• Periodic table, trends, and bonding
  o Groups of the periodic table
  o Periodic table trends
• Chemical reactions
  o Balancing chemical equations (both lessons)
• States of matter
• Acids and bases
  o Acid base introduction

Physics: [https://www.khanacademy.org/science/physics](https://www.khanacademy.org/science/physics)

• Work and Energy

**Mathematics Test**

Probability and Statics: [https://www.khanacademy.org/math/probability](https://www.khanacademy.org/math/probability)

• Independent and dependent events
  o Basic probability
  o Probability – The basics
Examples: Marble from a bag

- Statistical studies
  - Types of statistical studies
  - Simple hypothesis testing

- Descriptive statistics
  - Statistics intro
  - Example: Finding mean, median, mode
  - Mean, median, mode
  - Range, variance and standard deviation as measures of dispersion

- Random variables and probability distributions
  - Random variables

Algebra:

Pre-algebra: [https://www.khanacademy.org/math/pre-algebra/rates-and-ratios](https://www.khanacademy.org/math/pre-algebra/rates-and-ratios)

- Ratios and proportions
- Arithmetic properties
- Measurement

Algebra I: [https://www.khanacademy.org/math/algebra](https://www.khanacademy.org/math/algebra)

- This full set of lessons will review all of the basic algebra you may have forgotten!

Algebra II: [https://www.khanacademy.org/math/algebra2](https://www.khanacademy.org/math/algebra2)

- Systems of equations and inequalities
  - Solving systems graphically
  - Graphing systems of equations
  - Systems of equations
  - Systems of equations word problems

Another way to review basic math skills: [https://www.khanacademy.org/test-prep/sat/sat-math-practice](https://www.khanacademy.org/test-prep/sat/sat-math-practice)

SAT Math practice units 1-4