

American Careers High School 2009 – 2010
Aligned With
Kansas Academic Standards

Mathematics – Ninth and Tenth Grades

<p>Standard 1: Number and Computation – The student uses numerical and computational concepts and procedures in a variety of situations.</p>	<p>Standard 2: Algebra – The student uses algebraic concepts and procedures in a variety of situations.</p>
<ul style="list-style-type: none"> • Benchmark 1: Number Sense – The student demonstrates number sense for real numbers and algebraic expressions in a variety of situations. • Benchmark 2: Number Systems and Their Properties – The student demonstrates an understanding of the real number system; recognizes, applies, and explains their properties, and extends these properties to algebraic expressions. • Benchmark 3: Estimation – The student uses computational estimation with real numbers in a variety of situations. • Benchmark 4: Computation – The student models, performs, and explains computation with real numbers and polynomials in a variety of situations. 	<ul style="list-style-type: none"> • Benchmark 1: Patterns – The student recognizes, describes, extends, develops, and explains the general rule of a pattern in a variety of situations. • Benchmark 2: Variables, Equations, and Inequalities – The student uses variables, symbols, real numbers, and algebraic expressions to solve equations and inequalities in variety of situations. • Benchmark 3: Functions – The student analyzes functions in a variety of situations. • Benchmark 4: Models – The student develops and uses mathematical models to represent and justify mathematical relationships found in a variety of situations involving tenth grade knowledge and skills.

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Mathematics – Ninth and Tenth Grades (cont'd)

<p>Standard 3: Geometry – The student uses geometric concepts and procedures in a variety of situations.</p>	<p>Standard 4: Data – The student uses concepts and procedures of data analysis in a variety of situations.</p>
<ul style="list-style-type: none">• Benchmark 1: Geometric Figures and Their Properties – The student recognizes geometric figures and compares and justifies their properties of geometric figures in a variety of situations.• Benchmark 2: Measurement and Estimation – The student estimates, measures and uses geometric formulas in a variety of situations.• Benchmark 4: Geometry from an Algebraic Perspective – The student uses an algebraic perspective to analyze the geometry of two- and three-dimensional figures in a variety of situations.	<ul style="list-style-type: none">• Benchmark 1: Probability – The student applies probability theory to draw conclusions, generate convincing arguments, make predictions and decisions, and analyze decisions including the use of concrete objects in a variety of situations.• Benchmark 2: Statistics – The student collects, organizes, displays, explains, and interprets numerical (rational) and non-numerical data sets in a variety of situations.

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Reading – Ninth-Twelfth Grades

<p>Standard 1: Reading – The student reads and comprehends text across the curriculum.</p>	
<ul style="list-style-type: none">• Benchmark 1: The student uses skills in alphabets to construct meaning from text.• Benchmark 2: The student reads fluently.• Benchmark 3: The student expands vocabulary.• Benchmark 4: The student comprehends a variety of texts (narrative, expository, technical, and persuasive).	

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Social Studies – High School

<p>Civics-Government Standard: The student uses a working knowledge and understanding of governmental systems of Kansas and the United States and other nations with an emphasis on the United States Constitution, the necessity for the rule of law, the civic values of the American people, and the rights, privileges, and responsibilities of becoming active participants in our representative democracy.</p>	<p>Economics Standard: The student uses a working knowledge and understanding of major economic concepts, issues, and systems applying decision-making skills as a consumer, producer, saver, investor, and citizen of Kansas and the United States living in an interdependent world.</p>
<ul style="list-style-type: none">• Benchmark 1: The student understands the rule of law as it applies to individuals; family; school; local, state and national governments.• Benchmark 2: The student understands the shared ideals and diversity of American society and political culture.• Benchmark 3: The student understands how the United States Constitution allocates power and responsibility in the government.• Benchmark 4: The student identifies and examines the rights, privileges, and responsibilities in becoming an active civic participant.• Benchmark 5: The student understands various systems of governments and how nations and international organizations interact.	<ul style="list-style-type: none">• Benchmark 1: The student understands how limited resources require choices.• Benchmark 2: The student understands how the market economy works in the United States.• Benchmark 3: The student analyzes how different incentives, economic systems and their institutions, and local, national, and international interdependence affect people.• Benchmark 4: The student analyzes the role of the government in the economy.• Benchmark 5: The student makes effective decisions as a consumer, producer, saver, investor, and citizen.

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Social Studies – High School (*cont'd*)

<p>Geography: The student uses a working knowledge and understanding of the spatial organization of Earth’s surface and relationships between peoples and places and physical and human environments in order to explain the interactions that occur in Kansas, the United States, and in our world.</p>	<p>History: The student uses a working knowledge and understanding of significant individuals, groups, ideas, events, eras and developments in the history of Kansas, the United States, and the world, utilizing essential analytical and research skills.</p>
<ul style="list-style-type: none">• Benchmark 1: Geographic Tools and Location: The student uses maps, graphic representations, tools, and technologies to locate, use, and present information about people, places, and environments.• Benchmark 2: Places and Regions: The student analyzes the human and physical features that give places and regions their distinctive character.• Benchmark 3: Physical Systems: The student understands Earth’s physical systems and how physical processes shape Earth’s surface.• Benchmark 4: Human Systems: The student understands how economic, political, cultural, and social processes interact to shape patterns of human populations, interdependence, cooperation, and conflict.• Benchmark 5: Human-Environment Interactions: The student understands the effects of interactions between human and physical systems.	<ul style="list-style-type: none">• Benchmark 1: The student uses a working knowledge and understanding of individuals, groups, ideas, developments, and turning points in the era of the emergence of the modern United States (1890 -1930).• Benchmark 4: The student uses a working knowledge and understanding of individuals, groups, ideas, developments, and turning points in contemporary United States history (since 1990).• Benchmark 5: The student engages in historical thinking skills.

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Science – Grades 8-12

<p>Standard 1: Science As Inquiry – The student will develop the abilities necessary to do scientific inquiry and develop an understanding of scientific inquiry.</p>	<p>Standard 2A: Chemistry – The student will develop an understanding of the structure of atoms, compounds, chemical reactions, and the interactions of energy and matter.</p>
<ul style="list-style-type: none">• Benchmark 1: The student will demonstrate the abilities necessary to do scientific inquiry.	<ul style="list-style-type: none">• Benchmark 2: The students will understand the states and properties of matter.• Benchmark 3: The student will gain a basic concept of chemical reactions.

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Science – Grades 8-12 (cont'd)

<p>Standard 2B: Physics– The student will develop an understanding of the structure of atoms, compounds, chemical reactions, and the interactions of energy and matter.</p>	<p>Standard 3: Life Science – The student will develop an understanding of the cell, molecular basis of heredity, biological evolution, interdependence of organisms, matter, energy, and organization in living systems, and the behavior of organisms.</p>
<ul style="list-style-type: none">• Benchmark 1: The student will understand the relationships between force and motion.• Benchmark 2: The student will understand the conservation of mass and energy, and the First and Second Laws of Thermodynamics.• Benchmark 3: The student will understand the nature of the fundamental interactions of matter and energy.	<ul style="list-style-type: none">• Benchmark 4: The student will understand the interdependence of organisms and their interaction with the physical environment.• Benchmark 5: The student will develop an understanding of matter, energy, and organization in living systems.• Benchmark 6: The student will understand the behavior of animals.• Benchmark 7: The student will demonstrate an understanding of the diversity of structure and function in organisms.

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Science – Grades 8-12 (cont'd)

<p>Standard 4: Earth and Space Science – The student will develop an understanding of energy in the earth system, geochemical cycles, the formation and organization of the earth system, the dynamics of the earth/moon/sun system, and the organization and development of the universe.</p>	<p>Standard 5: Science and Technology – The student will develop understandings about the relationship between science and technology.</p>
<ul style="list-style-type: none">• Benchmark 1: The student will develop an understanding of the sources of energy that power the subsystems and cycles of the dynamic earth: the geosphere, hydrosphere, atmosphere and biosphere.	<ul style="list-style-type: none">• Benchmark 1: The student will develop an understanding that technology is applied science.

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Science – Grades 8-12 (cont'd)

<p>Standard 6: Science in Personal and Environmental Perspectives – The student will develop an understanding of personal and community health, population growth, natural resources, environmental quality, natural and human-induced hazards, and science and technology in local, national, and global settings.</p>	<p>Standard 7: History and Nature of Science – The student will develop understanding of science as a human endeavor, the nature of scientific knowledge, and historical perspectives.</p>
<ul style="list-style-type: none">• Benchmark 1: The student will develop an understanding of the overall functioning of human systems and their interaction with the environment in order to understand specific mechanisms and processes related to health issues.• Benchmark 3: The student will understand that human populations use natural resources and influence environmental quality.• Benchmark 4: The student will understand the effect of natural and human-influenced hazards.• Benchmark 5: The student will develop an understanding of the relationship between science, technology, and society.	<ul style="list-style-type: none">• Benchmark 1: The student will develop an understanding that science is a human endeavor that uses models to describe and explain the physical universe.• Benchmark 2: The student will develop an understanding of the nature of scientific knowledge.

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Writing – Ninth-Twelfth Grades

<p>Standard 1: Writing– The student writes effectively for a variety of audiences, purposes, and contexts.</p>	<p>Standard 2: Research – The student applies reading and writing skills to demonstrate learning.</p>
<ul style="list-style-type: none">• Benchmark 2: The student writes expository text using the writing process.• Benchmark 2: The student writes expository text using the writing process.• Benchmark 3: The student writes technical text using the writing process.• Benchmark 4: The student writes persuasive text using the writing process.	<ul style="list-style-type: none">• Benchmark 1: The student uses effective research practices.