

The Show-Me Standards

KNOWLEDGE STANDARDS

KNOWLEDGE + PERFORMANCE = ACADEMIC SUCCESS

Missouri students must build a solid foundation of factual knowledge and basic skills in the traditional content areas. The statements listed here represent such a foundation in [reading](#), [writing](#), [mathematics](#), [world and American history](#), [forms of government](#), [geography](#), [science](#), [health/physical education](#) and the [fine arts](#). This foundation of knowledge and skills would also be incorporated into courses in vocational education and practical arts. Students would acquire this knowledge base at various grade levels and through various courses of study. Each grade level and each course sequence would build on the knowledge base acquired at a previous grade level or in a previous course.

These concepts and areas of study are indeed significant to success in school and in the workplace. However, they are neither inclusive nor are they likely to remain the same over the years. We live in an age in which "knowledge" grows at an ever-increasing rate, and our expectations for students must keep up with that expanding knowledge base.

Combining what students must know and what they must be able to do may require teachers and districts to adapt their curriculum. To assist districts in this effort, teachers from across the state are developing curriculum frameworks in each of the content areas. These frameworks show how others might balance concepts and abilities for students at the elementary, middle and secondary levels. These models, however, are only resources. Missouri law assures local control of education. Each district has the authority to determine the content of its curriculum, how it will be organized and how it will be presented.

Communication Arts	Mathematics	Science
<p><i>In Communication Arts, students in Missouri public schools will acquire a solid foundation which includes knowledge of and proficiency in</i></p> <ol style="list-style-type: none"> speaking and writing standard English (including grammar, usage, punctuation, spelling, capitalization) reading and evaluating fiction, poetry and drama reading and evaluating nonfiction works and material (such as biographies, newspapers, technical manuals). writing formally (such as reports, narratives, essays) and informally (such as outlines, notes). comprehending and evaluating the content and artistic aspects of oral and visual presentations (such as story-telling, debates, lectures, multi-media productions) participating in formal and informal presentations and discussions of issues and ideas identifying and evaluating relationships between language and culture 	<p><i>In Mathematics, students in Missouri public schools will acquire a solid foundation which includes knowledge of</i></p> <ol style="list-style-type: none"> addition, subtraction, multiplication and division; other number sense, including numeration and estimation; and the application of these operations and concepts in the workplace and other situations geometric and spatial sense involving measurement (including length, area, volume) trigonometry, and similarity and transformations of shapes data analysis, probability and statistics patterns and relationships within and among functions and algebraic, geometric and trigonometric concepts mathematical systems (including real numbers, whole numbers, integers, fractions), geometry, and number theory (including primes, factors, multiples) discrete mathematics (such as graph theory, counting techniques, matrices) 	<p><i>In Science, students in Missouri public schools will acquire a solid foundation which includes knowledge of</i></p> <ol style="list-style-type: none"> properties and principles of matter and energy properties and principles of force and motion characteristics and interactions of living organisms changes in ecosystems and interactions of organisms with their environments processes (such as plate movement, water cycle, air flow) and interactions of earth's biosphere, atmosphere, lithosphere and hydrosphere composition and structure of the universe and the motions of the objects within it processes of scientific inquiry (such as formulating and testing hypotheses) impact of science, technology and human activity on resources and the environment
Social Studies	Fine Arts	Health/Physical Education
<p><i>In Social Studies, students in Missouri public schools will acquire a solid foundation which includes knowledge of</i></p> <ol style="list-style-type: none"> principles expressed in the documents shaping constitutional democracy in the United States continuity and change in the history of Missouri, the United States and the world principles and processes of governance systems economic concepts (including productivity and the market system) and principles (including the laws of supply and demand) the major elements of geographical study and analysis (such as location, place, movement, regions) and their relationships to changes in society and environment relationships of the individual and groups to institutions and cultural traditions the use of tools of social science inquiry (such as surveys, statistics, maps, documents) 	<p><i>In Fine Arts, students in Missouri public schools will acquire a solid foundation which includes knowledge of</i></p> <ol style="list-style-type: none"> process and techniques for the production, exhibition or performance of one or more of the visual or performed arts the principles and elements of different art forms the vocabulary to explain perceptions about and evaluations of works in dance, music, theater and visual arts interrelationships of visual and performing arts and the relationships of the arts to other disciplines visual and performing arts in historical and cultural contexts 	<p><i>In Health/Physical Education, students in Missouri public schools will acquire a solid foundation which includes knowledge of</i></p> <ol style="list-style-type: none"> structures of, functions of, and relationships among human body systems principles and practices of physical and mental health (such as personal health habits, nutrition, stress management) diseases and methods for prevention, treatment and control principles of movement and physical fitness methods used to assess health, reduce risk factors, and avoid high risk behaviors (such as violence, tobacco, alcohol and other drug use) consumer health issues (such as the effects of mass media and technologies on safety and health) responses to emergency situations