

KENTUCKY ALIGNMENT FOR NIH SUPPLEMENT THE BRAIN: OUR SENSE OF SELF

THE BRAIN: OUR SENSE OF SELF		
Kentucky Core Content for Science Assessment: Grades 5 through 7		
Lesson	Standard	Description
2, 3	SC-M-1.3.1	Energy is a property of many substances and is associated with heat, light, electricity, and sound. Energy is transferred in many ways.
3	SC-M-3.1.3	Cells carry on the many functions needed to sustain life. They grow and divide, thereby producing more cells. This requires that they take in nutrients, which they use to provide energy for the work that cells do and to make the materials that a cell or organism needs.
2, 3, 4	SC-M-3.1.4	Specialized cells perform specialized functions in multicellular organisms. Groups of specialized cells cooperate to form tissues. Different tissues are, in turn, grouped together to form larger functional units called organs. Each type of cell, tissue, and organ has a distinct structure and set of functions that serve the organism.
3, 4	SC-M-3.2.1	All organisms must be able to obtain and use resources, grow, reproduce, and maintain stable internal conditions while living in a constantly changing external environment.
2, 3, 4	SC-M-3.2.2	Regulation of an organism's internal environment involves sensing the internal environment and changing physiological activities to keep conditions within the range required to survive. Maintaining a stable internal environment is essential for an organism's survival.
1, 2, 3, 4	SC-M-3.2.3	Behavior is one kind of response an organism may make to an internal or environmental stimulus. A behavioral response requires coordination and communication at many levels including cells, organ systems, and organisms. Behavioral response is a set of actions determined in part by heredity and in part from experience.
2, 4	SC-M-3.3.2	Every organism requires a set of instructions for specifying its traits. This information is contained in genes located in the chromosomes of each cell. Heredity is the passage of these instructions from one generation to another.
4	SC-M-3.4.1	Biological change over time accounts for the diversity of species developed through gradual processes over many generations. Biological adaptations include changes in structures, behaviors, or physiology that enhance survival and reproductive success in a particular environment.
2, 3, 4	2.1 Scientific Ways of Thinking and Working	Students will refine and refocus questions that can be answered through scientific investigation combined with scientific information; use appropriate equipment, tools, techniques, technology and mathematics to gather, analyze, and interpret scientific data; use evidence, logic, and scientific knowledge to develop scientific explanations; design and conduct scientific investigations; communicate designs, procedures, observations, and results of scientific investigations; and review and analyze scientific investigations and explanations of other

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		students.
4	2.1 Science and Technology	Students will describe how science helps drive technology and technology helps drive science.
4, 5	2.1 Personal and Social Perspectives	Students will describe the individual's roles and responsibilities in the following areas: changes in populations, resources and environments, natural hazards, science and technology in society, and personal and societal issues about risks and benefits.
3, 4, 5	2.1 History and Nature of Science	Students will analyze the role science plays in everyday life: past, present, and future

Kentucky Core Content for Reading Assessment: Grades 5 through 7

Lesson	Standard	Description
1, 3, 4	RD-M-2.0.4	Know the meanings of common prefixes and suffixes to comprehend unfamiliar words.
All lessons	RD-M-2.0.8	Make predictions, draw conclusions, and make generalizations about what is read.
All lessons	RD-M-2.0.9	Reflect on and evaluate what is read.
All lessons	RD-M-2.0.10	Connect information from a passage to students' lives and/or real world issues.
All lessons	RD-M-2.0.14	Summarize information from a passage.
1, 2, 3, 4	RD-M-4.011	Locate and apply information for a specific purpose (e.g., following directions, completing a task).
3, 4, 5	RD-M-4.012	Identify the sequence of activities needed to carry out a procedure.

Kentucky Core Content for Mathematics Assessment: Grades 6 through 8

Lesson	Standard	Description
4	MA-M-1.2.1	Add, subtract, multiply, and divide rational numbers to solve problems.
4	MA-M-1.2.2	Compute large and small quantities and check for reasonable and appropriate computational results.

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4	MA-M-3.3.2	Understand how theoretical and experimental probabilities are related.
4	MA-M-3.2.1	Organize, represent, analyze, and interpret sets of data.
1, 3, 4	MA-M-3.2.2	Construct and interpret displays of data.
4	MA-M-4.3.2	Make generalizations about how the change in one variable affects the change in another variable.
Kentucky Core Content Practical Living/Vocational Studies: Middle Level – Health Subdomain		
Lesson	Standard	Description
5	PL-M-1.6.1	Health and safety hazards encountered by adolescents can be life threatening.