

KENTUCKY ALIGNMENT FOR NIH SUPPLEMENT CHEMICALS, THE ENVIRONMENT, AND YOU

**CHEMICALS, THE ENVIRONMENT, AND YOU**

**Kentucky Core Content for Science Assessment: Grades 5 through 7**

Lesson	Standard	Description
1, 2, 4, 5	SC-M-1.1.3	Chemical elements do not break down during normal laboratory reactions such as heating, exposure to electric current, or reaction with acids. Elements combine in many ways to produce compounds.
2, 3, 4, 5	SC-M-3.1.3	Cells carry on the many functions needed to sustain life. They grown 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 an organism needs.
2, 3, 4, 5	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.
All lessons	<b>2.1 Scientific Ways of Thinking and Working</b>	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 students.
1, 5, 6	<b>2.1 Science and Technology</b>	Students will describe how science helps drive technology and technology helps drive science.
1, 2, 4, 5, 6	<b>2.1 Personal and Social Perspectives</b>	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.
1, 4, 5, 6	<b>2.1 History and Nature of Science</b>	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
2, 4, 5, 6	RD-M-2.0.4	Know the meanings of common prefixes and suffixes to comprehend unfamiliar words.

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<b>All lessons</b>	<b>RD-M-2.0.8</b>	Make predictions, draw conclusions, and make generalizations about what is read.
<b>2, 4, 5, 6</b>	<b>RD-M-2.0.9</b>	Reflect on and evaluate what is read.
<b>All lessons</b>	<b>RD-M-2.0.10</b>	Connect information from a passage to students' lives and/or real world issues.
<b>2, 4, 5, 6</b>	<b>RD-M-2.0.14</b>	Summarize information from a passage.
<b>2, 3, 4, 5, 6</b>	<b>RD-M-4.011</b>	Locate and apply information for a specific purpose (e.g., following directions, completing a task).
<b>2, 3, 4, 6</b>	<b>RD-M-4.012</b>	Identify the sequence of activities needed to carry out a procedure.

**Kentucky Core Content for Mathematics Assessment: Grades 6 through 8**

<b>Lesson</b>	<b>Standard</b>	<b>Description</b>
<b>2, 3, 4</b>	<b>MA-M-1.2.1</b>	Add, subtract, multiply, and divide rational numbers to solve problems.
<b>3, 4</b>	<b>MA-M-1.2.3</b>	Apply ratios, proportional reasoning, and percents.
<b>3, 4</b>	<b>MA-M-3.2.1</b>	Students will organize, represent, analyze, and interpret sets of data.
<b>3, 4</b>	<b>MA-M-3.2.2</b>	Students will construct and interpret displays of data.
<b>2, 3, 4</b>	<b>MA-M-3.3.2</b>	Students will understand how theoretical and experimental probabilities are related.
<b>2, 3, 4</b>	<b>MA-M-4.3.2</b>	Students will make generalizations about how the change in one variable affects the change in another variable.
<b>2, 3</b>	<b>MA-M-4.2.6</b>	Students will write and solve equations that represent everyday situations.

**Kentucky Core Content Practical Living/Vocational Studies: Middle Level – Health Subdomain**

<b>Lesson</b>	<b>Standard</b>	<b>Description</b>
<b>2, 3, 4, 5, 6</b>	<b>PL-M-1.6.1</b>	Health and safety hazards encountered by adolescents can be life threatening.