

KENTUCKY ALIGNMENT FOR NIH SUPPLEMENT DOING SCIENCE: THE PROCESS OF SCIENTIFIC INQUIRY

DOING SCIENCE: THE PROCESS OF SCIENTIFIC INQUIRY

Kentucky Core Content for Science Assessment: Grades 5 through 7

Lesson	Standard	Description
All lessons	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 students.
3, 4	2.1 Science and Technology	Students will describe how science helps drive technology and technology helps drive science.
3, 4	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.
All lessons	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
All lessons	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, 3, 4	RD-M-4.011	Locate and apply information for a specific purpose (e.g., following directions, completing a task).
1, 3, 4	RD-M-4.012	Identify the sequence of activities needed to carry out a procedure.

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Kentucky Core Content for Mathematics Assessment: Grades 6 through 8		
Lesson	Standard	Description
4	MA-M-1.2.3	Apply ratios, proportional reasoning, and percents.
3, 4	MA-M-3.2.1	Organize, represent, analyze, and interpret sets of data.
3, 4	MA-M-3.2.2	Construct and interpret displays of data.
3, 4	MA-M-4.3.2	Make generalizations about how the change in one variable affects the change in another variable.