

SLEEP, SLEEP DISORDERS, AND BIOLOGICAL RHYTHMS

Kentucky Core Content for Science Assessment: Grades 8 through 11

Lesson	Standard	Description
2, 3	SC-H-3.2.1	Multicellular animals have nervous systems that generate behavior. Nerve cells communicate with each other by secreting specific molecules. Specialized cells in sense organs detect light, sound, and specific chemicals enabling animals to monitor what is going on in the world around them.
1, 2, 3, 4	SC-H-3.2.3	The broad patterns of behavior exhibited by organisms have changed over time through natural selection to ensure reproductive success. Organisms often live in unpredictable environments, so their behavioral responses must be flexible enough to deal with uncertainty and change. Behaviors often have an adaptive logic.
1, 2, 3	2.1 Scientific Ways of Thinking and Working	Students will formulate testable hypotheses and demonstrate the logical connections between the scientific concepts guiding a hypothesis and the design of an experiment; use equipment, tool, techniques, technology, and mathematics to improve scientific investigations and communications; use evidence, logic, and scientific knowledge to develop and revise scientific explanations and models; design and conduct different kinds of scientific investigations; communicate and defend the designs, procedures, observations, and results of scientific investigations; review and analyze scientific investigations and explanations of other investigators, including peers.
2, 3, 4, 5	2.1 Personal and Social Perspectives	Students will explore the impact of scientific knowledge and discoveries on personal and community health.
2, 3, 4, 5	2.1 Nature of Science	Students will analyze the role science plays in everyday life and investigate advances in science and technology that have important and long lasting effects on science and society.

Kentucky Core Content for Reading Assessment: Grades 8 through 10

All lessons	RD-H-2.0.1	Locate, evaluate, and apply information for a realistic purpose.
All lessons	RD-H-2.0.12	Make predictions and draw conclusions based on what is read.

KENTUCKY ALIGNMENT FOR NIH SUPPLEMENT THE BRAIN: Understanding Neurobiology Through the Study of Addiction

All lessons	RD-H-2.013	Analyze the content as it applies to students' lives and/or real world issues.
All lessons	RD-H-2.0.5	Make, confirm, and revise predictions.
3, 4, 5	RD-H-2.0.7	Formulate opinions in response to a reading passage.
3, 4, 5	RD-H-3.0.11	Accept or reject an argument, giving supporting evidence from the passage.
1, 2, 3	RD-H-4.0.12	Interpret the meaning of specialized vocabulary.
Kentucky Core Content for Mathematics Assessment: Grades 9 through 11		
Lesson	Standard	Description
Pre-lesson	MA-H-1.2.1	Students will perform addition, subtraction, multiplication, and division with real numbers in problem-solving situations to specified accuracy.
2, 3	MA-H-3.1.5	Students will understand differences between theoretical and experimental probability.
Pre-lesson, 1, 3	MA-H-3.2.1	Students will analyze, interpret results, make decisions, and draw conclusions based on a set of data.
Pre-lesson, 1, 2, 3	MA-H-3.2.3	Students will organize, display, and interpret statistical models (tables, graphs) of bivariate data.
1, 2, 3	MA-H-3.2.4	Students will interpret the results of a probability simulation, draw conclusions, and make predictions.
Kentucky Core Content Practical Living/Vocational Studies: High School – Health Subdomain		
1, 2, 4, 5	PL-H-1.3.1	Decisions which promote health and prevent illnesses, diseases, and injuries contribute positively to personal well-being.
1, 2, 5	PL-H-1.7.2	There are potential short- and long-term consequences and risks of behavioral choices (e.g., tobacco, alcohol, and other drug use) on individuals and families.