

SLEEP, SLEEP DISORDERS, AND BIOLOGICAL RHYTHMS		
South Dakota Core and Advanced Science Standards: Grades 9 – 12		
Lesson	Standard	Supporting Skill
All lessons	9-12.N.1.1.1	Recognize scientific knowledge is not merely a set of static facts but is dynamic and affords the best current explanations.
5	9-12.N.1.1.2	Discuss how progress in science can be affected by social issues.
1, 2, 3, 4	9-12.N.1.2.1	Research, communicate, and support a scientific argument.
1, 2, 3, 4	9-12.N.1.2.2	Recognize and analyze alternative explanations and models.
1, 2, 3, 4	9-12.N.1.2.3	Evaluate the scientific accuracy of information relevant to a specific issue (pseudo-science).
1, 2, 3, 4	9-12.N.2.1.1	Identify the questions and concepts to guide the development of hypotheses.
1, 3	9-12.N.2.1.A	Use a control and change one variable at a time.
2	9-12.N.2.1.2	Analyze primary sources of information to guide the development of the procedure.
1, 2, 3	9-12.N.2.1.3	Select and use appropriate instruments to extend observations and measurements.
1, 2, 3, 4	9-12.N.2.1.4	Revise explanations and models based on evidence and logic.
1, 2, 3	9-12.N.2.1.5	Use technology and mathematic skills to enhance investigations, communicate results, and defend conclusions.
1, 2, 3	9-12.L.1.2.A	Students are able to describe how living systems use biofeedback mechanisms to maintain homeostasis.
3	9-12.L.3.1.A	Students are able to relate genetic, instinct, and behavior patterns to biodiversity and survival of species.
3	9-12.L.3.1.2	Predict the results of biotic and abiotic interactions.
3	9-12.S.1.1.	Students are able to explain ethical roles and responsibilities of scientists and scientific research.
South Dakota Core and Advanced Mathematics Standards: Grades 9 – 12		
Lesson	Standard	Supporting Skill
1, 3	9-12.M.1.1.	Students are able to choose appropriate unit label, scale, and precision.
Pre-lesson, 1, 3	9-12.N.2.1.	Students are able to add, subtract, multiply, and divide real numbers including integral exponents.
Pre-lesson, 1, 3	9-12.N.2.1A.	Students are able to add, subtract, multiply, and divide real numbers including rational exponents.
Pre-lesson, 1, 3	9-12.N.3.1.	Students are able to use estimation strategies in problem situations to predict results and to check the reasonableness of results.
Pre-lesson, 1, 3	9-12.N.3.2.1	Use properties of numbers that allow operational shortcuts for computational procedures.

SOUTH DAKOTA ALIGNMENT FOR NIH SUPPLEMENT SLEEP, SLEEP DISORDERS, AND BIOLOGICAL RHYTHMS

Pre-lesson, 1, 3	9-12.S.1.1.	Students are able to draw conclusions from a set of data.
Pre-lesson, 1, 3	9-12.S.1.2A.	Students are able to analyze and evaluate graphical displays of data.
Pre-lesson, 1, 3	9-12.S.1.3.	Represent a set of data in a variety of graphical forms and draw conclusions.

South Dakota Reading, Writing, Listening, Viewing ,and Speaking Standards: Grades 9 & 10

Grade 9

Lesson	Standard	Supporting Skill
All lessons	9.R.1.1	Students can apply example clues to extend vocabulary.
All lessons	9.R.2.2	Students can read fluently to comprehend grade-level text.
All lessons	9.R.5.2	Students can interpret procedural text to complete a multiple-step task.
All lessons	9.W.1.1	Students can write a thesis statement for an expository or persuasive document.
All lessons	9.W.2.2	Students can identify and incorporate prepositional phrases in the writing process.
All lessons	9.LVS.1.3	Students can clarify and defend positions with precise and relevant evidence within an informal setting.

Grade 10

All lessons	10.R.1.1	Students can apply contrast clues to extend vocabulary.
All lessons	10.R.2.1	Students can formulate associations between texts and experiences.
All lessons	10.R.2.2	Students can read fluently to comprehend grade-level text.
All lessons	10.W.1.1	Students can write text using problem/solution and cause/effect organizational patterns.
All lessons	10.W.2.2	Students can edit text for the correct use of pronouns and pronoun case.
All lessons	10.LVS.1.1	Students can analyze visual and auditory impact on the credibility and reliability of the message.

South Dakota Health Education Standards: Grades 9 – 12

Lesson	Standard	Benchmark
1, 3, 5	1.1.c	Evaluate the impact of various health practices on self and family.
1, 3, 4, 5	1.2.a	Analyze the impact of personal health behaviors on the functioning of body systems.
4	1.2.c	Determine how to delay and/or reduce potential health problems during adulthood.
4	1.3.a	Evaluate the impact of national and international medical research.
5	1.3.b	Evaluate the impact of health requirements and policies which affect personal, family, and community health.

SOUTH DAKOTA ALIGNMENT FOR NIH SUPPLEMENT SLEEP, SLEEP DISORDERS, AND BIOLOGICAL RHYTHMS

4	1.3.c	Analyze various genetic conditions and health practices which may influence the cause or prevention of diseases.
3, 5	3.1.a	Analyze the short and long term consequences of risky and harmful behaviors.
3	3.1.b	Evaluate how social pressures can influence participation in risk taking behaviors.
1, 3	3.1.c	Evaluate personal practices which promote life-long health and well being.
1, 3	3.2.c	Assess personal health goals and adjust behaviors/practices appropriately.
1, 3, 5	3.3.a	Analyze how personal choices can impact long range health.
All lessons	4.1.b	Model effective communication techniques when interacting with family, peers, and community.
All lessons	4.2.c	Use pertinent and descriptive terminology when discussing health issues.
All lessons	5.1.b	Evaluate information/data to support or refute the cause/effect and significance of health issues.
5	5.2.c	Analyze the impact various health plans/strategies may have on future populations and environments.