LOOKING GOOD, FEELING GOOD: FROM THE INSIDE OUT – EXPLORING BONE, MUSCLE, AND SKIN

Connecticut Science Academic Standards – Grades 6 - 8

Lesson	Standard	Expected Performances
2, 3, 4, 5, 6	C INQ.1	Identify questions that can be answered through scientific investigation.
2, 3, 4, 6	C INQ.3	Design and conduct appropriate types of scientific investigations to answer different questions.
2, 4, 5, 6	C INQ.4	Identify independent and dependent variables, and those variables that are kept constant, when designing an experiment.
2, 3, 4, 6	C INQ.5	Use appropriate tools and techniques to make observations and gather data.
2, 4, 6	C INQ.6	Use mathematical operations to analyze and interpret data.
2, 4, 5, 6	C INQ.7	Identify and present relationships between variables in appropriate graphs.
2, 3, 4, 5, 6	C INQ.8	Draw conclusions and identify sources of error.
2, 3, 4, 5, 6	C INQ.9	Provide explanations to investigated problems or questions.
All lessons	C INQ.10	Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.
3, 4, 5, 7	C 17.	Explain how the human musculo-skeletal system supports the body and allows movement.

Connecticut Mathematics Academic Standards – Grades 6 - 8

Lesson	Standard	Expected Performances
2, 3, 4, 5, 6	1.1.a	Identify relationships and make generalizations through the use of patterns. (6) Analyze physical phenomena and patterns to identify relationships and make generalizations. (7) Analyze physical phenomena, functions and patterns to identify relationships and make generalizations. (8)
4, 6	1.2.a	Represent and analyze mathematical relationships with the help of tables, graphs, equations and inequalities. (6) Describe the effects of characteristics of mathematical relationships on the way the relationships are represented. (7) Describe the effects of characteristics of linear relationships on the way the relationships are represented verbally and in tables, graphs and equations. (8)
4, 6	1.3.a	Solve problems using a variety of algebraic methods. (6) Solve problems using various algebraic methods and properties. (7) Manipulate equations, inequalities and functions to solve problems. (8)

Lesson	Standard	Expected Performances
4, 6	2.1.a	Relate whole numbers, fractions, decimals and integers to number lines, scales, the coordinate plane and problem- (6) Represent real-world situations and solutions to problems using the appropriate symbolic form (fractions, decimals or percents). (7)
4, 6	2.1.d	Compare quantities and solve problems using ratios, rates and percents. (6)
4, 6	2.2.a	Solve problems using a variety of computational strategies, including the use of calculators. (6) Solve problems involving fractions, decimals, ratios and percents. (8)
2, 6	3.3.a	Solve geometric and measurement problems through the use of a variety of tools, techniques and strategies. (6)
2, 6	3.3.b	Solve geometric and measurement problems through the use of a variety of tools, techniques and strategies. (7)
2, 3, 4, 5, 6	4.1.a	Display and compare sets of data using various systematic or graphical representations. (6) Select the appropriate visual representation of data based on the kind of data collected and the purpose for their use. (7) Construct appropriate representations of data based on the size and kind of data set and the purpose for their use. (8)
2, 4, 5, 6	4.2.a	Make and evaluate statistical claims and justify conclusions with evidence. (8)

Connecticut English Academic Standards – Grades 6 - 8

Lesson	Standard	Expected Performances
3, 4, 5, 6	1.1.a	Activate prior knowledge, establish purposes for reading and adjust the purposes while reading.
3, 4, 5, 6	1.1.b	Monitor comprehension and apply appropriate strategies when understanding breaks down.
3, 4, 5, 6, 7	1.1.c	Select and organize relevant information from text to summarize
2, 3, 4, 5, 6, 7	1.1.e	Draw conclusions and use evidence to substantiate them by using texts heard, read and viewed.
All lessons	1.1.f	Make and justify inferences from explicit and or implicit information.
All lessons	1.2.a	Generate and respond to questions.
3, 4, 5, 6, 7	1.2.b	Interpret information that is implied in a text.
2, 3, 4, 5, 6, 7	1.2.c	Distinguish between fact and opinion.
3, 4, 5, 6	1.2.e	Discuss and respond to texts by making text-to-self, text-to-text and text-to-world connections.
3, 4, 5, 6	1.3.c	Analyze the meaning of words and phrases in context.
2, 3, 4, 5, 6, 7	1.3.d	Develop vocabulary through listening, speaking, reading and writing.
All lessons	1.3.e	Use content vocabulary appropriately and accurately (math, music, science, social studies, etc.).

All lessons	1.4.a	Respond to the ideas of others and recognize the validity of differing views.
All lessons	3.1.a	Use oral language with clarity, voice and fluency to communicate a message.
All lessons	3.1.c	Use the appropriate features of persuasive, narrative, expository or poetic writing.
All lessons	3.2.a	Determine the purpose, point of view and audience, and choose an appropriate written, oral or visual format.
All lessons	4.2.a	Use sentence patterns typical of spoken and written language to produce text.
All lessons	4.3.b	Demonstrate proficient use of proper mechanics, usage and spelling skills.
Connecticut Health Academic Standards – Grades 5 - 8		
Lesson	**Standard**	**Expected Performances**
5	1.c	Identify temporary and long-term health problems associated with poor food choices and eating habits.
5	1.e	Develop a plan for and engage in appropriate daily physical activity.
4, 5, 6, 7	2.d	Identify the causes, symptoms and prevention methods of communicable and noncommunicable diseases.
5, 6, 7	3.a	Demonstrate and practice ways of communicating care, concern and consideration to oneself and others in a respectful manner.
5, 6	3.g	Identify and explain how the media may influence behaviors and decisions.