

NEVADA ALIGNMENT FOR NIH SUPPLEMENT CELL BIOLOGY AND CANCER

<b>CELL BIOLOGY AND CANCER</b>		
<b>Nevada Science Academic Standards: Grades 9 – 12</b>		
<b>Activity</b>	<b>Standard</b>	<b>Objective</b>
2, 3, 4	N.12.A.1	Students know tables, charts, illustrations and graphs can be used in making arguments and claims in oral and written presentations.
2, 3, 4	N.12.A.3	Students know repeated experimentation allows for statistical analysis and unbiased conclusions.
4	N.12.A.4	Students know how to safely conduct an original scientific investigation using the appropriate tools and technology.
3, 4	N.12.A.5	Students know models and modeling can be used to identify and predict cause-effect relationships.
2, 4, 5	N.12.B.1	Students know science, technology, and society influenced one another in both positive and negative ways.
2	N.12.B.3	Students know the influence of ethics on scientific enterprise.
2, 3, 4	N.12.B.4	Students know scientific knowledge builds on previous information.
1, 2	L.12.A.1	Students know genetic information passed from parents to offspring is coded in the DNA molecule.
1, 2, 3, 4	L.12.A.4	Students know several causes and effects of somatic versus sex cell mutations.
2	L.12.B.1	Students know cell structures and their functions.
1, 2, 3	L.12.B.3	Students know disease disrupts the equilibrium that exists in a healthy organism.
<b>Nevada Mathematics Academic Standards: Grades 9 – 12</b>		
<b>Activity</b>	<b>Standard</b>	<b>Objective</b>
3	A.1	Generalize solutions and apply previous knowledge to new problem solving situations.
3	A.2	Determine an efficient strategy, verify, interpret, and evaluate the results with respect to the original problem.
3	A.5	Identify necessary and extraneous information.
3	A.7	Apply technology as a tool in problem solving situations.
3	A.8	Apply combinations of proven strategies and previous knowledge to solve non-routine problems.
3	B.2	Model and explain mathematical relationships using oral, written, graphic, and algebraic methods.
3	B.5	Use everyday language, both orally and in writing, to communicate strategies and solutions to problems using appropriate mathematical language.
3	D.4	Apply mathematical thinking and modeling to solve problems that arise in other disciplines, such as rhythm in music and motion in science.
3	D.5	Identify, explain, and apply mathematics in everyday life.
3	1.12.8	Identify and apply real number properties to solve problems.

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3, 4	3.12.3	Select and use appropriate measurement tools, techniques, and formulas to solve problems in mathematical and practical situations.
3	5.12.1	Organize statistical data through the use of tables, graphs, and matrices (with and without technology).
<b>Nevada English Language Arts Academic Standards: Grade 12</b>		
<b>Activity</b>	<b>Standard</b>	<b>Objective</b>
All activities	1.12.3	Apply knowledge of Anglo-Saxon-, Greek-, and Latin-derived roots and affixes to determine the meaning of unknown vocabulary across the curriculum.
All activities	2.12.1	Refine pre-reading strategies such as accessing prior knowledge, predicting, previewing, and setting a purpose to ensure comprehension.
All activities	4.12.3	Locate, organize, interpret, and synthesize information in multiple primary and secondary sources to support ideas and positions.
2, 4, 5	4.12.4	Critique the power, logic, reasonableness, and audience appeal of arguments advanced in texts.
1, 2, 3, 4	4.12.6	Read and apply multi-step directions to perform complex procedures and tasks.
3, 4	5.12.2	Produce subject-specific technical writing, such as instructions for a shop project or field reports for science.
2, 3, 4	5.12.5	Write summaries or abstracts that distill large amounts of information into clear, concise prose.
5	5.12.6	Write persuasive texts that evaluate, interpret, or speculate using specific rhetorical devices to support assertions; clarify and defend positions with precise and relevant evidence.
2, 3, 4, 5	6.12.3	Write compositions that present complex ideas in a sustained and compelling manner.
2, 3, 4, 5	7.12.1	Apply the rules of usage, grammar, and capitalization with few significant errors; use modifiers, parallel structure, and subordination correctly in writing.
2, 3, 4, 5	7.12.3	Use rules of punctuation; manipulate conventions for emphasis in writing.
2, 3, 4, 5	7.12.5	Demonstrate conventional spelling.
2, 3, 4, 5	8.12.1	Summarize and evaluate communications that inform, persuade, and entertain.
All activities	9.12.1	Use specific and varied vocabulary and apply standard English to communicate ideas.
All activities	10.12.1	Participate in problem-solving conversations or group discussions by identifying, synthesizing, and evaluating data.
5	10.12.2	Negotiate to arrive at consensus by proposing and examining possible options.
5	10.12.4	Justify a position using logic and refuting opposing viewpoints.
4	11.12.1	Formulate cross-curricular research questions and use an appropriate research design to gather information.
4	11.12.5	Organize and present research findings using appropriate media.
<b>Nevada Health Education Core Curriculum Standards: High School</b>		
<b>Activity</b>	<b>Standard</b>	<b>Objective</b>
1, 3	1.12.1	Assess the impact of personal history, health care choices, and the aging process on individual health.

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<b>2, 5</b>	<b>1.12.6</b>	Analyze how research and medical advances influence the prevention and control of disease.
<b>5</b>	<b>1.12.7</b>	Describe ways an individual can effectively enhance personal health and contribute to the solution of community-wide health problems.
<b>5</b>	<b>1.12.8</b>	Analyze how the environment influences the health of the community.
<b>5</b>	<b>2.12.1</b>	Analyze health promotion and disease prevention efforts.
<b>2, 4, 5</b>	<b>2.12.2</b>	Critique sources of health information for accuracy.
<b>All activities</b>	<b>5.12.1</b>	Utilize skills for communicating effectively.
<b>5</b>	<b>6.12.1A</b>	Utilize the decision-making process to address complex community health issues.
<b>5</b>	<b>6.12.2</b>	Demonstrate the ability to utilize various strategies when making decisions related to health needs and risks of young adults.
<b>2, 4, 5</b>	<b>6.12.3</b>	Synthesize information on health resources.
<b>2</b>	<b>7.12.1B</b>	Demonstrate the ability to adapt health messages to meet the characteristics and needs of a particular audience.