USING TECHNOLOGY TO STUDY CELLULAR AND MOLECULAR BIOLOGY		
Nevada Science Academic Standards: Grades 9 – 12		
Lesson	**Standard**	**Objective**
1, 2, 3	**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	**N.12.A.3**	Students know repeated experimentation allows for statistical analysis and unbiased conclusions.
3	**N.12.A.4**	Students know how to safely conduct an original scientific investigation using the appropriate tools and technology.
1, 2, 3	**N.12.A.5**	Students know models and modeling can be used to identify and predict cause-effect relationships.
1, 3, 4	**N.12.B.1**	Students know science, technology, and society influenced one another in both positive and negative ways.
All lessons	**N.12.B.4**	Students know scientific knowledge builds on previous information.
3	**L.12.B.1**	Students know cell structures and their functions.
3	**L.12.B.2**	Students know the human body has a specialized anatomy and physiology composed of an hierarchical arrangement of differentiated cells.
3	**L.12.B.3**	Students know disease disrupts the equilibrium that exists in a healthy organism.
Nevada Mathematics Academic Standards: Grades 9 – 12		
Lesson	**Standard**	**Objective**
1, 2	**A.1**	Generalize solutions and apply previous knowledge to new problem solving situations.
2	**A.2**	Determine an efficient strategy, verify, interpret, and evaluate the results with respect to the original problem.
2	**A.5**	Identify necessary and extraneous information.
1, 2	**A.7**	Apply technology as a tool in problem solving situations.
1, 2	**A.8**	Apply combinations of proven strategies and previous knowledge to solve non-routine problems.
1, 2	**B.2**	Model and explain mathematical relationships using oral, written, graphic, and algebraic methods.
1, 2	**B.5**	Use everyday language, both orally and in writing, to communicate strategies and solutions to problems using appropriate mathematical language.
1, 2	**D.4**	Apply mathematical thinking and modeling to solve problems that arise in other disciplines, such as rhythm in music and motion in science.
1, 2	**D.5**	Identify, explain, and apply mathematics in everyday life.
1	**1.12.6**	Determine an approximate value of radical and exponential expressions using a variety of methods.
1, 2	**1.12.8**	Identify and apply real number properties to solve problems.

1	**3.12.3**	Select and use appropriate measurement tools, techniques, and formulas to solve problems in mathematical and practical situations.
Nevada English Language Arts Academic Standards: Grade 12		
Lesson	**Standard**	**Objective**
All lessons	**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.
2, 3, 4	**2.12.1**	Refine pre-reading strategies such as accessing prior knowledge, predicting, previewing, and setting a purpose to ensure comprehension.
2, 3, 4	**4.12.3**	Locate, organize, interpret, and synthesize information in multiple primary and secondary sources to support ideas and positions.
2, 3, 4	**4.12.4**	Critique the power, logic, reasonableness, and audience appeal of arguments advanced in texts.
1, 2, 3	**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.
3, 4	**5.12.5**	Write summaries or abstracts that distill large amounts of information into clear, concise prose.
3, 4	**6.12.3**	Write compositions that present complex ideas in a sustained and compelling manner.
3, 4	**7.12.1**	Apply the rules of usage, grammar, and capitalization with few significant errors; use modifiers, parallel structure, and subordination correctly in writing.
3, 4	**7.12.3**	Use rules of punctuation; manipulate conventions for emphasis in writing.
3, 4	**7.12.5**	Demonstrate conventional spelling.
3, 4	**8.12.1**	Summarize and evaluate communications that inform, persuade, and entertain.
All lessons	**9.12.1**	Use specific and varied vocabulary and apply standard English to communicate ideas.
2, 3, 4	**10.12.1**	Participate in problem-solving conversations or group discussions by identifying, synthesizing, and evaluating data.
4	**10.12.2**	Negotiate to arrive at consensus by proposing and examining possible options.
4	**10.12.4**	Justify a position using logic and refuting opposing viewpoints.
3, 4	**11.12.1**	Formulate cross-curricular research questions and use an appropriate research design to gather information.
3, 4	**11.12.5**	Organize and present research findings using appropriate media.
Nevada Health Education Core Curriculum Standards: High School		
Lesson	**Standard**	**Objective**
1, 4	**1.12.6**	Analyze how research and medical advances influence the prevention and control of disease.
1, 4	**4.12.2**	Explore how technology is used to enhance health.