EMERGING AND RE-EMERGING INFECTIOUS DISEASES					
California Science Content Standards Biology/Life Sciences - Grades 9 - 12					
Activity	Standard	Description			
3	4.c	Know how mutations in the DNA sequence of a gene may or may not affect the expression of the gene or the sequence of amino acids in an encoded protein.			
3	6.g	Know how to distinguish between the accommodation of an individual organism to its environment and the gradual adaptation of a lineage of organisms through genetic change.			
2, 3, 4	7.c	Know new mutations are constantly being generated in a gene pool.			
2, 3, 4	7.d	Know variation within a species increases the likelihood that at least some members of a species will survive under changed environmental conditions.			
4, 5	10.c	Know how vaccination protects an individual from infectious diseases.			
2, 3, 4	10.d	Know there are important differences between bacteria and viruses with respect to their requirements for growth and replication, the body's primary defenses against bacterial and viral infections, and effective treatments of these infections.			
	California Science Content Standards Investigation & Experimentation - Grades 9 to 12				
Activity	Standard	Description			
2, 3, 4	1.a	Select and use appropriate tools and technology (such as computer-linked probes, spreadsheets, and graphing calculators) to perform tests, collect data, analyze relationships, and display data.			
2, 3	1.b	Identify and communicate sources of unavoidable experimental error.			
3, 4	1.c	Identify possible reasons for inconsistent results, such as sources of error or uncontrolled conditions.			
All activities	1.d	Formulate explanations by using logic and evidence.			
2, 3, 4	1.f	Distinguish between hypothesis and theory as scientific terms.			
2, 3, 4	1.g	Recognize the usefulness and limitations of models and theories as scientific representations of reality.			
3, 4	1.j	Recognize the issues of statistical variability and the need for controlled tests.			
1, 2, 3, 5	1.k	Recognize the cumulative nature of scientific evidence.			
2, 3, 4, 5	1.l	Analyze situations and solve problems that require combining and applying concepts from more than one area of science.			

05/2006 Source: <a href="http://www.cde.ca.gov/be/st/ss">http://www.cde.ca.gov/be/st/ss</a>

2, 3, 4, 5	1.m	Investigate a science-based societal issue by researching the literature, analyzing data, and communicating the findings.			
California English-Language Arts Content Standards – Grades 9 & 10					
	Reading				
Activity	Standard	Description			
2, 3, 4, 5	2.3	Generate relevant questions about readings on issues that can be researched.			
All activities	2.4	Synthesize the content from several sources or works by a single author dealing with a single issue; paraphrase the ideas and connect them to other sources and related topics to demonstrate comprehension.			
All activities	2.5	Extend ideas presented in primary or secondary sources through original analysis, evaluation, and elaboration.			
	Writing				
Activity	Standard	Description			
2, 3, 4, 5	1.1	Establish a controlling impression or coherent thesis that conveys a clear and distinctive perspective on the subject and maintain a consistent tone and focus throughout the piece of writing.			
2, 3, 4, 5	1.4	Develop the main ideas within the body of the composition through supporting evidence (e.g., scenarios, commonly held beliefs, hypotheses, definitions).			
2, 3, 4, 5	2.3.a	Marshal evidence in support of a thesis and related claims, including information on all relevant perspectives.			
All activities	2.3.b	Convey information and ideas from primary and secondary sources accurately and coherently.			
All activities	2.3.c	Make distinctions between the relative value and significance of specific data, facts, and ideas.			
All activities	2.3.d	Include visual aids by employing appropriate technology to organize and record information on charts, maps, and graphs.			
All activities	2.3.f	Use technical terms and notations accurately.			
All activities	2.4.a	Structure ideas and arguments in a sustained and logical fashion.			
All activities	2.4.c	Clarify and defend positions with precise and relevant evidence, including facts, expert opinions, quotations, and expressions of commonly accepted beliefs and logical reasoning.			
Listening and Speaking					
All activities	1.1	Formulate judgments about the ideas under discussion and support those judgments with convincing evidence.			

## CALIFORNIA ALIGNMENT FOR NIH SUPPLEMENT EMERGING AND RE-EMERGING INFECTIOUS DISEASES

All activities	1.6	Present and advance a clear thesis statement and choose appropriate types of proof (e.g., statistics, testimony, specific instances) that meet standard tests for evidence, including credibility, validity, and relevance.		
2, 3, 4, 5	2.2.a	Marshal evidence in support of a thesis and related claims, including information on all relevant perspectives.		
All activities	2.2.b	Convey information and ideas from primary and secondary sources accurately and coherently.		
All activities	2.2.c	Make distinctions between the relative value and significance of specific data, facts, and ideas.		
All activities	2.2.d	Include visual aids by employing appropriate technology to organize and display information on charts, maps, and graphs.		
All activities	2.2.f	Use technical terms and notations accurately.		
California Mathematics Content Standards Algebra I - Grades 8 - 12				
Activity	Standard	Description		
Activity 2, 3, 4	Standard 1.1	Description Students use properties of numbers to demonstrate whether assertions are true or false.		
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2, 3, 4	1.1	Students use properties of numbers to demonstrate whether assertions are true or false.  Students add, subtract, multiply, and divide monomials and polynomials. Students solve multistep problems,		
2, 3, 4	1.1	Students use properties of numbers to demonstrate whether assertions are true or false.  Students add, subtract, multiply, and divide monomials and polynomials. Students solve multistep problems, including word problems, by using these techniques.  Students add, subtract, multiply, and divide rational expressions and functions. Students solve both		
2, 3, 4 3, 4 3, 4	1.1 10.0 13.0	Students use properties of numbers to demonstrate whether assertions are true or false.  Students add, subtract, multiply, and divide monomials and polynomials. Students solve multistep problems, including word problems, by using these techniques.  Students add, subtract, multiply, and divide rational expressions and functions. Students solve both computationally and conceptually challenging problems by using these techniques.		