

EMERGING AND RE-EMERGING INFECTIOUS DISEASES

Hawaii Content and Performance Standards: Biological Science – Grades 9 – 12

Activity	Benchmark	Descriptor
2, 3, 4	SC.BS.1.1	Describe how a testable hypothesis may need to be revised to guide a scientific investigation.
3, 4	SC.BS.1.2	Design and safely implement an experiment, including the appropriate use of tools and techniques to organize, analyze, and validate data.
1, 2, 3, 4	SC.BS.1.3	Defend and support conclusions, explanations, and arguments based on logic, scientific knowledge, and evidence from data.
2, 3, 4	SC.BS.1.4	Determine the connection(s) among hypotheses, scientific evidence, and conclusions.
2, 3, 4	SC.BS.1.5	Communicate the components of a scientific investigation, using appropriate techniques.
1, 2, 3, 4	SC.BS.1.7	Revise, as needed, conclusions and explanations based on new evidence.
2, 3, 4, 5	SC.BS.2.1	Explain how scientific advancements and emerging technology have influenced society.
2, 3, 5	SC.BS.2.2	Compare the risks and benefits of potential solutions to technological issues.
2, 3	SC.BS.3.4	Explain dynamic equilibrium in organisms, populations, and ecosystems; explain the effect of equilibrium shifts.
3	SC.BS.5.2	Explain the theory of natural selection.
3	SC.BS.5.5	Explain chromosomal mutations, their possible causes, and their effects on genetic variation.

Hawaii Content and Performance Standards: Mathematics – Pre-Algebra and Algebra

Activity	Benchmark	Descriptor
4	MA.PA.9.1	Represent a variety of patterns (including recursive patterns) with tables, graphs (including graphing technology when available), words, and when possible, symbolic rules.
4	MA.PA.10.3	Use tables and graphs to represent and compare linear relationships.
4	MA.PA.11.1	Design a study that compares two samples, collect data, and select the appropriate representation (double bar graph, back-to-back stem and leaf plot, parallel box and whisker plots, scatter plot) to compare the sets of data.
4	MA.PA.11.2	Judge the validity of data based on the data collection method.
3, 4	MA.PA.14.1	Judge the validity of conjectures that are based on experiments or simulations.
4	MA.AI.10.1	Solve linear equations and inequalities in one variable using a variety of strategies (e.g., algebraically, by graphing, by using a graphing calculator).

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Hawaii Content and Performance Standards: Language Arts – Grades 9 & 10		
Activity	Benchmark	Descriptor
1, 2, 3, 4	LA.9.1.1 LA.10.1.1	Use new grade-appropriate vocabulary, including content area vocabulary, learned through reading and word study.
2, 3, 4, 5	LA.10.1.2	Independently use a variety of strategies to gain information from print and online resources, both primary and secondary, as part of a research plan to support a thesis.
All activities	LA.9.2.2	Analyze questions not answered by a selected text.
All activities	LA.9.4.1 LA.10.4.1	Write in a variety of grade-appropriate formats for a variety of purposes and audiences, such as: <ul style="list-style-type: none"> • narratives or scripts with a theme and details that contribute to a mood or tone • literary, persuasive, and personal essays • research papers that state and support a thesis • functional writing including forms, applications, and questionnaires • pieces to reflect on learning and to solve problems
All activities	LA.10.4.2	Use knowledge of sentence structure, grammar, punctuation, capitalization, and spelling to produce grade-appropriate writing in standard English.
All activities	LA.9.4.4	Use a variety of strategies and resources to spell grade-appropriate words.
2, 3, 4, 5	LA.9.5.1	Use accurate and useful research information in writing.
All activities	LA.9.5.3 LA.10.5.3	Use a variety of sentence structures (e.g., parallel phrasing, subordination) and grade-appropriate vocabulary to achieve efficiency, indicate emphasis, and clarify meaning.
All activities	LA.9.5.4	Use a voice and tone appropriate for the topic, purpose, and audience.
All activities	LA.9.6.1 LA.10.6.1	Organize and participate in a small group to accomplish a task or explore a topic. (9) Participate in a small group (e.g., plan sessions, decide on procedures, plan sessions, assign responsibilities, evaluate results). (10)
5	LA.9.6.2 LA.10.6.2	Give a planned oral presentation: highlighting a main idea(s) with support (e.g., statistics, anecdotes, examples) (9); adopting a position or explaining a point of view (10).
All activities	LA.9.6.5 LA.10.6.7	Adjust dialect (e.g., standard English, Hawaiian Creole, colloquialisms) to grade-appropriate audience, purpose, and situation.
2, 3, 4, 5	LA.10.7.1	Incorporate information from a range of print and online sources.
Hawaii Content and Performance Standards: Health – Grades 9 – 12		
Activity	Benchmark	Descriptor
2, 3, 4	HE.9-12.1.3	Identify personal health behaviors and other factors that impact body system functions.
All activities	HE.9-12.1.4	Explain the purpose of public health policies and government regulations in health.
2, 3, 4, 5	HE.9-12.2.1	Compare health information provided from home, school, and community resources.

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4	HE.9-12.3.3	Evaluate personal behaviors within the risk areas (e.g., tobacco use, alcohol and drug use, nutrition, fitness, personal safety, sexual activity).
2, 3, 4	HE.9-12.4.1	Evaluate the interrelationship of internal and external factors that influence health behaviors.
3, 4, 5	HE.9-12.6.1	Explain decision-making strategies used to make health-related decisions.
3, 4, 5	HE.9-12.6.2	Evaluate health decisions that have immediate and long-term consequences on the individual, family, and community.
2, 3	HE.9-12.7.3	Evaluate the effectiveness of strategies in communicating health information.
2, 3	HE.9-12.7.4	Explain how health messages can be translated to particular audiences.