



Invasive Disease

Social Studies, Science, Math and English Language Arts

Florida State Standards

HE.7.B.1.7	Access a variety of technologies to gather health information.	SS.912.G.5.4	Analyze case studies of how humans impact the diversity and productivity of ecosystems.
HE.7.B.3.1	Predict when health-related situations require the application of a thoughtful decision-making process.	SC.7.L.17.2	Compare and contrast the relationships among organisms such as mutualism, predation, parasitism, competition, and commensalism.
HE.7.B.3.5	Propose the potential outcome of each option when making a health-related decision.	SC.7.L.17.3	Describe and investigate various limiting factors in the local ecosystem and their impact on native populations, including food, shelter, water, space, disease, parasitism, predation, and nesting sites.
HE.7.C.1.3	Analyze how environmental factors affect personal health.		
HE.7.C.1.8	Classify infectious agents and their modes of transmission to the human body.	SC.912.L.14.6	Explain the significance of genetic factors, environmental factors, and pathogenic agents to health from the perspectives of both individual and public health.
HE.7.P.1.2	Analyze healthy practices and behaviors that will maintain or improve personal health.		
HE.7.P.2.1	Articulate a position on a topic and support it with accurate health information.	SC.912.L.14.52	Explain the basic functions of the human immune system, including specific and nonspecific immune response, vaccines, and antibiotics.
HE.8.B.1.2	Analyze valid health information from home, school, and community.	SC.912.L.17.6	Compare and contrast the relationships among organisms, including predation, parasitism, competition, commensalism, and mutualism.
HE.8.B.3.1	Determine when health-related situations require the application of a thoughtful prepared plan of action.		
HE.8.C.1.3	Predict how environmental factors affect personal health.	SC.912.L.17.8	Recognize the consequences of the losses of biodiversity due to catastrophic events, climate changes, human activity, and the introduction of invasive, non-native species.
SS.912.C.2.11	Analyze public policy solutions or courses of action to resolve a local, state, or federal issue.		
SS.912.C.3.13	Illustrate examples of how government affects the daily lives of citizens at the local, state, and national levels.	SC.912.L.17.13	Discuss the need for adequate monitoring of environmental parameters when making policy decisions.

LAFS.8.W.3.7
LAFS.910.W.3.7
LAFS.1112.W.3.7

Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation.

LAFS.8.W.3.8
LAFS.910.W.3.8
LAFS.1112.W.3.8

Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the usefulness of each source in answering the research question; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and following a standard format for citation.

LAFS.8.SL.1.1
LAFS.910.SL.1.1
LAFS.1112.SL.1.1

Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grades 9–10 topics, texts, and issues, building on others’ ideas and expressing their own clearly and persuasively.

LAFS.8.SL.2.5
LAFS.910.SL.2.5
LAFS.1112.SL.2.5

Integrate multimedia and visual displays into presentations to clarify information, strengthen claims and evidence, and add interest.

Next Generation Science Standards:

MS-LS2-1 Analyze and interpret data to provide evidence for the effects of resource availability on organisms and populations of organisms in an ecosystem.

MS-LS2-2 Construct an explanation that predicts patterns of interaction among organisms across multiple ecosystems.

HS-LS2-2 Use mathematical representations to support and revise explanations based on evidence about factors affecting biodiversity and populations in ecosystems of different scales.

HS-LS2-6 Evaluate claims, evidence, and reasoning that the complex interactions in ecosystems maintain relatively consistent numbers and types of organisms in stable conditions, but changing conditions may result in a new ecosystem.

HS-LS2-7 Design, evaluate, and refine a solution for reducing the impacts of humans on the environment and biodiversity.