

Main Criteria: Georgia Standards of Excellence

Secondary Criteria: Virtual Field Trips

Subjects: Science, Social Studies

Grade: 9

Correlation Options: Show Correlated

Georgia Standards of Excellence

Science

Grade: 9 - Adopted: 2016

STRAND/TOPIC	GA.SB.	Biology
STANDARD / DESCRIPTION	SB4.	Obtain, evaluate, and communicate information to illustrate the organization of interacting systems within single-celled and multi-celled organisms.
ELEMENT	SB4.a.	Construct an argument supported by scientific information to explain patterns in structures and function among clades of organisms, including the origin of eukaryotes by endosymbiosis. Clades should include:
ELEMENT/GLE	SB4.a.3.	Eukaryotes
EXPECTATION	SB4.a.3.1.	Fungi <u>Virtual Field Trips</u> La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest - Part 1 - Older Grades
EXPECTATION	SB4.a.3.3.	Animals <u>Virtual Field Trips</u> Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) National Parks - West - Alaska & Hawaii The Amazon Rainforest - Part 1 - Older Grades
STRAND/TOPIC	GA.SB.	Biology
STANDARD / DESCRIPTION	SB5.	Obtain, evaluate, and communicate information to assess the interdependence of all organisms on one another and their environment.
ELEMENT	SB5.a.	Plan and carry out investigations and analyze data to support explanations about factors affecting biodiversity and populations in ecosystems. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1 The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades
STRAND/TOPIC	GA.SB.	Biology
STANDARD / DESCRIPTION	SB5.	Obtain, evaluate, and communicate information to assess the interdependence of all organisms on one another and their environment.
ELEMENT	SB5.b.	Develop and use models to analyze the cycling of matter and flow of energy within ecosystems through the processes of photosynthesis and respiration.
ELEMENT/GLE	SB5.b.1.	Arranging components of a food web according to energy flow. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol

ELEMENT/GLE	SB5.b.3.	Explaining the need for cycling of major biochemical elements (C, O, N, P, and H). <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades
STRAND/TOPIC	GA.SB.	Biology
STANDARD / DESCRIPTION	SB5.	Obtain, evaluate, and communicate information to assess the interdependence of all organisms on one another and their environment.
ELEMENT	SB5.c.	Construct an argument to predict the impact of environmental change on the stability of an ecosystem. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1 The Amazon Rainforest - Part 1 - Older Grades
ELEMENT	SB5.d.	Design a solution to reduce the impact of a human activity on the environment. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1 The Amazon Rainforest - Part 2 - Older Grades
ELEMENT	SB5.e.	Construct explanations that predict an organism's ability to survive within changing environmental limits (e.g., temperature, pH, drought, fire). <u>Virtual Field Trips</u> Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) National Parks - West - Alaska & Hawaii The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades
STRAND/TOPIC	GA.SB.	Biology
STANDARD / DESCRIPTION	SB6.	Obtain, evaluate, and communicate information to assess the theory of evolution.
ELEMENT	SB6.a.	Construct an explanation of how new understandings of Earth's history, the emergence of new species from pre-existing species, and our understanding of genetics have influenced our understanding of biology. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol
ELEMENT	SB6.b.	Analyze and interpret data to explain patterns in biodiversity that result from speciation. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol
ELEMENT	SB6.c.	Construct an argument using valid and reliable sources to support the claim that evidence from comparative morphology (analogous vs. homologous structures), embryology, biochemistry (protein sequence) and genetics support the theory that all living organisms are related by way of common descent.

		<u>Virtual Field Trips</u> Galapagos Islands - Espagnol
STRAND/TOPIC	GA.SES.	Earth Systems
STANDARD / DESCRIPTION	SES1.	Obtain, evaluate, and communicate information to investigate the composition and formation of Earth systems, including the Earth's place in the solar system.
ELEMENT	SES1.b.	Ask questions to evaluate evidence for the development and composition of Earth's early systems, including the geosphere (crust, mantle and core), hydrosphere and atmosphere. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1
STRAND/TOPIC	GA.SES.	Earth Systems
STANDARD / DESCRIPTION	SES2.	Obtain, evaluate, and communicate information to understand how plate tectonics creates certain geologic features, landforms, Earth materials, and geologic hazards.
ELEMENT	SES2.c.	Construct an explanation that communicates the relationship of geologic features, landforms, Earth materials and geologic hazards to each plate tectonic setting. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah
ELEMENT	SES2.e.	Construct an argument using multiple forms of evidence that supports the theory of plate tectonics (e.g., fossils, paleomagnetism, seafloor age, etc.). <u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1
STRAND/TOPIC	GA.SES.	Earth Systems
STANDARD / DESCRIPTION	SES3.	Obtain, evaluate, and communicate information to explore the actions of water, wind, ice, and gravity as they relate to landscape change.
ELEMENT	SES3.a.	Plan and carry out an investigation that demonstrates how surface water and groundwater act as the major agents of physical and chemical weathering. <u>Virtual Field Trips</u> National Parks West - Wyoming, Utah
ELEMENT	SES3.c.	Construct an explanation that relates the past and present actions of ice, wind, and water to landform distribution and landscape change. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol National Parks - West - Alaska & Hawaii National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1
ELEMENT	SES3.d.	Construct an argument based on evidence that relates the characteristics of the sedimentary materials to the energy by which they were transported and deposited.

		<u>Virtual Field Trips</u> Galapagos Islands - Espagnol National Parks of the Western Region - Part 1
STRAND/TOPIC	GA.SES.	Earth Systems
STANDARD / DESCRIPTION	SES5.	Obtain, evaluate, and communicate information to investigate the interaction of solar energy and Earth's systems to produce weather and climate.
ELEMENT	SES5.a.	Develop and use models to explain how latitudinal variations in solar heating create differences in air pressure, global wind patterns, and ocean currents that redistribute heat globally. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest - Part 1 - Older Grades
ELEMENT	SES5.c.	Construct an argument that predicts weather patterns based on interactions among ocean currents, air masses, and topography. <u>Virtual Field Trips</u> National Parks West - Nevada, California National Parks of the Western Region - Part 1
ELEMENT	SES5.d.	Analyze and interpret data to show how temperature and precipitation produce the pattern of climate regions (zones) on Earth. <u>Virtual Field Trips</u> La Selva Amazonica - Pte 1 (En Espagnol) National Parks West - Nevada, California The Amazon Rainforest - Part 1 - Older Grades
ELEMENT	SES5.f.	Construct an argument relating changes in global climate to variation to Earth/sun relationships and atmospheric composition. <u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii National Parks of the Western Region - Part 1
STRAND/TOPIC	GA.SES.	Earth Systems
STANDARD / DESCRIPTION	SES6.	Obtain, evaluate, and communicate information about how life on Earth responds to and shapes Earth's systems.
ELEMENT	SES6.b.	Construct an explanation that describes how biological processes have caused major changes in Earth's systems through geologic time (e.g., nutrient cycling, atmospheric composition, and soil formation). <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades
ELEMENT	SES6.c.	Ask questions to investigate and communicate how humans depend on Earth's land and water resources, which are distributed unevenly around the planet as a result of past geological and environmental processes. <u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1
ELEMENT	SES6.d.	Analyze and interpret data that relates changes in global climate to natural and anthropogenic modification of Earth's atmosphere and oceans. <u>Virtual Field Trips</u>

		National Parks - West - Alaska & Hawaii National Parks of the Western Region - Part 1
STRAND/TOPIC	GA.SEV.	Environmental Science
STANDARD / DESCRIPTION	SEV1.	Obtain, evaluate, and communicate information to investigate the flow of energy and cycling of matter within an ecosystem.
ELEMENT	SEV1.a.	Develop and use a model to compare and analyze the levels of biological organization including organisms, populations, communities, ecosystems, and biosphere. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1 The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades
ELEMENT	SEV1.b.	Develop and use a model based on the Laws of Thermodynamics to predict energy transfers throughout an ecosystem (food chains, food webs, and trophic levels). <u>Virtual Field Trips</u> Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest - Part 1 - Older Grades
ELEMENT	SEV1.c.	Analyze and interpret data to construct an argument of the necessity of biogeochemical cycles (hydrologic, nitrogen, phosphorus, oxygen, and carbon) to support a sustainable ecosystem. <u>Virtual Field Trips</u> La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades
ELEMENT	SEV1.d.	Evaluate claims, evidence, and reasoning of the relationship between the physical factors (e.g., insolation, proximity to coastline, topography) and organismal adaptations within terrestrial biomes. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1 The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades
ELEMENT	SEV1.e.	Plan and carry out an investigation of how chemical and physical properties impact aquatic biomes in Georgia. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) National Parks - West - Alaska & Hawaii National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1 The Amazon Rainforest - Part 1 - Older Grades
STRAND/TOPIC	GA.SEV.	Environmental Science
STANDARD / DESCRIPTION	SEV2.	Obtain, evaluate, and communicate information to construct explanations of stability and change in Earth's ecosystems.

ELEMENT	SEV2.a.	Analyze and interpret data related to short-term and long-term natural cyclic fluctuations associated with climate change. <u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii National Parks of the Western Region - Part 1
ELEMENT	SEV2.c.	Construct an argument to predict changes in biomass, biodiversity, and complexity within ecosystems, in terms of ecological succession. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol
ELEMENT	SEV2.d.	Construct an argument to support a claim about the value of biodiversity in ecosystem resilience including keystone, invasive, native, endemic, indicator, and endangered species. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) National Parks - West - Alaska & Hawaii National Parks West - Nevada, California The Amazon Rainforest - Part 1 - Older Grades
STRAND/TOPIC	GA.SEV.	Environmental Science
STANDARD / DESCRIPTION	SEV3.	Obtain, evaluate, and communicate information to evaluate types, availability, allocation, and sustainability of energy resources.
ELEMENT	SEV3.a.	Analyze and interpret data to communicate information on the origin and consumption of renewable forms of energy (wind, solar, geothermal, biofuel, and tidal) and non-renewable energy sources (fossil fuels and nuclear energy). <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades
ELEMENT	SEV3.b.	Construct an argument based on data about the risks and benefits of renewable and nonrenewable energy sources. <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades
ELEMENT	SEV3.c.	Obtain, evaluate, and communicate data to predict the sustainability potential of renewable and non-renewable energy resources. <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades
ELEMENT	SEV3.d.	Design and defend a sustainable energy plan based on scientific principles for your location. <u>Virtual Field Trips</u> The Amazon Rainforest - Part 2 - Older Grades
STRAND/TOPIC	GA.SEV.	Environmental Science
STANDARD / DESCRIPTION	SEV4.	Obtain, evaluate, and communicate information to analyze human impact on natural resources.
ELEMENT	SEV4.a.	Construct and revise a claim based on evidence on the effects of human activities on natural resources. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1

		The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades
ELEMENT	SEV4.b.	Design, evaluate, and refine solutions to reduce human impact on the environment including, but not limited to, smog, ozone depletion, urbanization, and ocean acidification. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1 The Amazon Rainforest - Part 2 - Older Grades
STRAND/TOPIC	GA.SEV.	Environmental Science
STANDARD / DESCRIPTION	SEV5.	Obtain, evaluate, and communicate information about the effects of human population growth on global ecosystems.
ELEMENT	SEV5.c.	Construct an argument from evidence regarding the ecological effects of human innovations (Agricultural, Industrial, Medical, and Technological Revolutions) on global ecosystems. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1 The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades
ELEMENT	SEV5.d.	Design and defend a sustainability plan to reduce your individual contribution to environmental impacts, taking into account how market forces and societal demands (including political, legal, social, and economic) influence personal choices. <u>Virtual Field Trips</u> Galapagos Islands - Espagnol National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1 The Amazon Rainforest - Part 2 - Older Grades
STRAND/TOPIC	GA.SPS.	Physical Science
STANDARD / DESCRIPTION	SPS8.	Obtain, evaluate, and communicate information to explain the relationships among force, mass, and motion.
ELEMENT	SPS8.a.	Plan and carry out an investigation and analyze the motion of an object using mathematical and graphical models. <u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii

Georgia Standards of Excellence

Social Studies

Grade: 9 - Adopted: 2016

STRAND/TOPIC	G.A.C.	American Government/Civics
STANDARD / DESCRIPTION	SSCG3.	Demonstrate knowledge of the framing and structure of the United States Constitution.
ELEMENT	SSCG3.c.	Explain the fundamental principles of the United States Constitution, including limited government, the rule of law, federalism, separation of powers, checks and balances, and popular sovereignty.

		<u>Virtual Field Trips</u> Washington, DC - Grades 6 - 12
STRAND/TOPIC	G.A.C.	American Government/Civics
STANDARD / DESCRIPTION	SSCG4.	Demonstrate knowledge of the organization and powers of the national government.
ELEMENT	SSCG4.b.	Analyze the relationship between the three branches in a system of checks and balances and separation of powers. <u>Virtual Field Trips</u> Washington, DC - Grades 6 - 12
STRAND/TOPIC	G.A.C.	American Government/Civics
STANDARD / DESCRIPTION	SSCG5.	Demonstrate knowledge of the federal system of government described in the United States Constitution.
ELEMENT	SSCG5.b.	Define and provide examples of enumerated, implied, concurrent, reserved, and denied powers. <u>Virtual Field Trips</u> Washington, DC - Grades 6 - 12
STRAND/TOPIC	G.A.C.	American Government/Civics
STANDARD / DESCRIPTION	SSCG11.	Explain the functions of the departments and agencies of the federal bureaucracy.
ELEMENT	SSCG11.a.	Compare and contrast the organization and responsibilities of independent regulatory agencies, government corporations, and executive agencies. <u>Virtual Field Trips</u> Washington, DC - Grades 6 - 12
STRAND/TOPIC	G.A.C.	American Government/Civics
STANDARD / DESCRIPTION	SSCG17.	Demonstrate knowledge of the organization and powers of state and local government described in the Georgia Constitution.
ELEMENT	SSCG17.d.	Analyze the services provided by state and local governments. <u>Virtual Field Trips</u> Barcelona - English Barcelona - Espagnol
STRAND/TOPIC	G.A.E.	Economics
STANDARD / DESCRIPTION	SSEF.	Fundamentals
ELEMENT	SSEF5.	Describe the roles of government in the United States economy.
ELEMENT/GLE	SSEF5.a.	Explain why government provides public goods and services, redistributes income, protects property rights, and resolves market failures. <u>Virtual Field Trips</u> Barcelona - English Barcelona - Espagnol
STRAND/TOPIC	G.A.E.	Economics
STANDARD / DESCRIPTION	SSEMA.	Macroeconomics
ELEMENT	SSEMA2.	Explain the role and functions of the Federal Reserve System.
ELEMENT/GLE	SSEMA2.a.	Explain the roles/functions of money as a medium of exchange, store of value, and unit of account/standard of value. <u>Virtual Field Trips</u> Barcelona - English Barcelona - Espagnol
STRAND/TOPIC	GA.Soc.	Sociology
STANDARD / DESCRIPTION	SSSocC.	Culture and Social Structure

ELEMENT	SSSocC1.	Explain the development and importance of culture.
ELEMENT/GLE	SSSocC1.b.	Identify the basic elements of culture. <u>Virtual Field Trips</u> La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades
STRAND/TOPIC	GA.Soc.	Sociology
STANDARD / DESCRIPTION	SSSocC.	Culture and Social Structure
ELEMENT	SSSocC3.	Analyze social structure and interaction within society.
ELEMENT/GLE	SSSocC3.b.	Describe and compare various types of societies. <u>Virtual Field Trips</u> La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades
STRAND/TOPIC	GA.U.S.H.	United States History
STANDARD / DESCRIPTION	SSUSH13.	Evaluate efforts to reform American society and politics in the Progressive Era.
ELEMENT	SSUSH13.d.	Describe Progressive legislative actions including empowerment of the voter, labor laws, and the conservation movement. <u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1
STRAND/TOPIC	GA.WG.	World Geography
STANDARD / DESCRIPTION		Physical Geography
ELEMENT	SSWG1.	Explain why physical characteristics of place such as landforms, bodies of water, climate, and natural resources act as contributing factors to world settlement patterns.
ELEMENT/GLE	SSWG1.a.	Identify and describe climates and locations of major physical features of North America. Explain how these physical characteristics impact settlement patterns including, but not limited to, the Mississippi River System, the Appalachian and Rocky Mountains, and the Canadian Shield. <u>Virtual Field Trips</u> National Parks - West - Alaska & Hawaii National Parks West - Nevada, California National Parks West - Wyoming, Utah National Parks of the Western Region - Part 1 Washington, DC - Grades 6 - 12
ELEMENT/GLE	SSWG1.c.	Identify and describe climates and locations of major physical features of Europe. Explain how these physical characteristics impact settlement patterns including, but not limited to, the Alps, Pyrenees, and Ural Mountains, and the Rhine, Danube, and Seine Rivers. <u>Virtual Field Trips</u> Barcelona - English Barcelona - Espagnol Paris - City of Light - Grades 6 - 12 Paris - La Ville Lumiere (En Francais)
STRAND/TOPIC	GA.WG.	World Geography
STANDARD / DESCRIPTION		Cultural Geography
ELEMENT	SSWG2.	Evaluate how the physical and human characteristics of places and regions are connected to human identities and cultures.

ELEMENT/GLE	SSWG2.a.	Examine how ethnic compositions of various groups has led to diversified cultural landscapes, including, but not limited to, architecture, traditions, food, art, and music. <u>Virtual Field Trips</u> Barcelona - English Barcelona - Espagnol La Selva Amazonica - Pte 1 (En Espagnol) The Amazon Rainforest - Part 1 - Older Grades The Amazon Rainforest - Part 2 - Older Grades
ELEMENT/GLE	SSWG2.c.	Examine the effects of universalizing and ethnic religions on local populations, including, but not limited to, Christianity, Judaism, Islam, Hinduism and Buddhism. <u>Virtual Field Trips</u> Jerusalem - Then and Now (Older Grades)
STRAND/TOPIC	GA.WH.	World History
STANDARD / DESCRIPTION	SSWH1.	Analyze the origins, structures, and interactions of societies in the ancient world from 3500 BCE/BC to 500 BCE/BC.
ELEMENT	SSWH1.c.	Explain the development of monotheism, include: the concepts developed by the ancient Hebrews. <u>Virtual Field Trips</u> Jerusalem - Then and Now (Older Grades)

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