Mission Geography and Alaska
Connecting Mission Geography to State Standards

Grades K-4

Module 1: Exploring our planet from above

Inv.	Geography for Life	State Standard(s) Connection
1	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-1: Use maps and globes to locate places and regions. A-4: Use graphic tools and technologies to depict and interpret the world's human and physical systems.
2	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-2: Make maps, globes, and graphs. A-3: Understand how and why maps are changing documents.
3	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-1: Use maps and globes to locate places and regions. A-4: Use graphic tools and technologies to depict and interpret the world's human and physical systems.
4	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-1: Use maps and globes to locate places and regions. A-2: Make maps, globes, and graphs. A-3: Understand how and why maps are changing documents.
	Std 8: Characteristics and spatial distribution of ecosystems	C-1: Analyze the operation of Earth's physical systems including ecosystems, climate systems, erosion systems, the water cycle and tectonics. C-2: Distinguish the functions, forces and dynamics of the physical processes that cause variations in natural regions. C-3: Recognize the concepts used in studying environments and recognize the diversity and productivity of different environmental regions.

Module 2: Water, water almost everywhere

Inv	Geography for Life	State Standard(s) Connection
1	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-1: Use maps and globes to locate places and regions. A-2: Make maps, globes, and graphs.
	Std 7: Physical processes that shape Earth	C-1: Analyze the operations of Earth's physical systems including ecosystems, climate systems, erosion systems, the water cycle and tectonics.
	Std 3: Analyze spatial organization of people, places, environments	A-6: Use spatial (geographic) tools and technologies to analyze and develop explanations and solutions to geographic problems.
2	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-1: Use maps and globes to locate places and regions.
	Std 4: Physical and human characteristics of places	B-1: Know that places have distinctive geographic characteristics.

3	Std 2: Use mental maps to organize information about people, places, environments	
	Std 7: Physical processes that shape Earth	C-1: Analyze the operations of Earth's physical systems including ecosystems, climate systems, erosion systems, the water cycle and tectonics.
4	Std 7: Physical processes that shape Earth	C-1: Analyze the operations of Earth's physical systems including ecosystems, climate systems, erosion systems, the water cycle and tectonics.
	Std 18: Apply geography to interpret the present and plan for the future	F-2: Understand compare, contrast and predict how places change through time. F-3: Analyze resource management practices to assess their impact on future environmental quality. F-4: Interpret demographic trends to project future changes and impacts on human environmental systems.

Module 3: Where on Earth do humans live?

Inv	Geography for Life	State Standard(s) Connection
1	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-1: Use maps and globes to locate places and regions. A-2: Make maps, globes, and graphs. A-4: Use graphic tools and technologies to depict and interpret the world's human and physical systems. A-6: Use spatial (geographic) tools and technologies to analyze and develop explanations and solutions to geographic problems.
	Std 4: Physical and human characteristics of places	B-1: Know that places have distinctive geographic characteristics.
2	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-1: Use maps and globes to locate places and regions. A-2: Make maps, globes, and graphs. A-4: Use graphic tools and technologies to depict and interpret the world's human and physical systems.
	Std 4: Physical and human characteristics of places	B-1: Know that places have distinctive geographic characteristics. B-3: Relate how people create similarities and differences among places.
3	Std 2: Use mental maps to organize information about people, places, environments	A-1: Use maps and globes to locate places and regions. A-5: Evaluate the importance of locations of human and physical features in interpreting geographic patterns.
	Std 17: How to apply geography to interpret the past	
4	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-1: Use maps and globes to locate places and regions. A-4: Make maps, globes, and graphs. A-5: Evaluate the importance of locations of human and physical features in interpreting geographic patterns.

	Std 4: Physical and human characteristics of places	B-3: Relate how people create similarities and differences among places. B-4: Discuss how and why groups and individual identify with places. B-6: Make informed decisions about where to live, work, travel, and seek opportunities. B-7: Understand that a region is a distinct area defined by one or more cultural or physical features.

Module 4: Paths

Inv	Geography for Life	State Standard(s) Connection
1	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-1: Use maps and globes to locate places and regions. A-2: Make maps, globes, and graphs. A-4: Use graphic tools and technologies to depict and interpret the world's human and physical systems.A-5: A-6: Use spatial (geographic) tools and technologies to analyze and develop explanations and solutions to geographic problems.
	Std 14: Human actions modify the physical environment	E-3: Understand the varying capacities of physical systems, such as watersheds, to support human activity. E-5: Analyze the consequences of human modification of the environment and evaluate the changing landscape.
2	Std 2: Use mental maps to organize information about people, places, environments	A-1: Use maps and globes to locate places and regions. A-2: Make maps, globes, and graphs. A-4: Use graphic tools and technologies to depict and interpret the world's human and physical systems. A-5: Evaluate the importance of locations of human and physical features in interpreting geographic patterns. A-6: Use spatial (geographic) tools and technologies to analyze and develop explanations and solutions to geographic problems.
	Std 14: Human actions modify the physical environment	E-3: Understand the varying capacities of physical systems, such as watersheds, to support human activity E-5: Analyze the consequences of human modification of the environment and evaluate the changing landscape.
3	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-1: Use maps and globes to locate places and regions. A-6: Use spatial (geographic) tools and technologies to analyze and develop explanations and solutions to geographic problems.
	Std 15: How physical systems affect human systems	E-3: Understand the varying capacities of physical systems, such as watersheds, to support human activity E-5: Analyze the consequences of human modification of the environment and evaluate the changing landscape.

4	Std 15: How physical systems affect human systems	E-6: Evaluate the impact of physical hazards on human systems.
	Std 18: Apply geography to interpret the present and plan for the future	F-5: Examine the impacts of global changes on human activity. F-6: Utilize geographic knowledge and skills and support interdisciplinary learning and build competencies required of citizens.

Grades 5-8

Module 1: Volcanoes—local hazard, global issue

Inv	Geography for Life	State Standard(s) Connection
1	Std 15: How physical systems affect human systems	E-6: Evaluate the impact of physical hazards on human systems.
	Std 7: Physical processes that shape Earth	C-1: Analyze the operations of Earth's physical systems including ecosystems, climate systems, erosion systems, the water cycle and tectonics. C-2: Distinguish the functions, forces and dynamics of the physical processes that cause variations in natural regions.
	Std 3: Analyze spatial organization of people, places, environments	A-4: Use graphic tools and technologies to depict and interpret the world's human and physical systems. A-6: Use spatial (geographic) tools and technologies to analyze and develop explanations and solutions to geographic problems.
2	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-1: Use maps and globes to locate places and regions.
	Std 3: Analyze spatial organization of people, places, environments	A-4: Use graphic tools and technologies to depict and interpret the world's human and physical systems. A-6: Use spatial (geographic) tools and technologies to analyze and develop explanations and solutions to geographic problems.
	Std 7: Physical processes that shape Earth	C-1: Analyze the operations of Earth's physical systems including ecosystems, climate systems, erosion systems, the water cycle and tectonics. C-2: Distinguish the functions, forces and dynamics of the physical processes that cause variations in natural regions.
3	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-1: Use maps and globes to locate places and regions.
	Std 15: How physical systems affect human systems	E-3: Understand the varying capacities of physical systems, such as watersheds, to support human activity. E-6: Evaluate the impact of physical hazards on human systems.
	Std 18: Apply geography to interpret the present and plan for the future	F-5: Examine the impacts of global changes on human activity.

Module 2: Mars and Earth—the quest for life

Inv	Geography for Life	State Standard(s) Connection
1	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-1: Use maps and globes to locate places and regions.
	Std 3: Analyze spatial organization of people, places, environments	A-4: Use graphic tools and technologies to depict and interpret the world's human and physical systems. A-5: Evaluate the importance of locations of human and physical features in interpreting geographic patterns.
2	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-1: Use maps and globes to locate places and regions.
	Std 3: Analyze spatial organization of people, places, environments	A-4: Use graphic tools and technologies to depict and interpret the world's human and physical systems. A-5: Evaluate the importance of locations of human and physical features in interpreting geographic patterns.
3	Std 4: Physical and human characteristics of places	B-1: Know that places have distinctive geographic characteristics.
	Std 7: Physical processes that shape Earth	C-1: Analyze the operations of Earth's physical systems including ecosystems, climate systems, erosion systems, the water cycle and tectonics. C-2: Distinguish the functions, forces and dynamics of the physical processes that cause variations in natural regions.
4	Std 4: Physical and human characteristics of places	B-1: Know that places have distinctive geographic characteristics. B-2: Analyze how places are formed, identified, named, and characterized.
	Std 18: Apply geography to interpret the present and plan for the future	

Module 3: Human footprints on Earth as seen by NASA scientists

Inv	Geography for Life	State Standard(s) Connection
1	Std 11: Patterns and networks of economic interdependence on Earth	D-1: Know that the need for people to exchange goods, services, and ideas creates cultural interaction and transportation and communication links.
2	Std 14: Human actions modify the physical environment	E-1: Understand how resources have been developed and used. E-3: Understand the varying capacities of physical systems, such as watersheds, to support human activity. E-5: Analyze the consequences of human modification of the environment and evaluate the changing landscape.
3	Std 12: Processes, patterns, and functions of human settlement	D-1: Know that the need for people to exchange goods, services, and ideas creates cultural interaction and transportation and communication links.

	Std 14: Human actions modify the physical environment	E-3: Understand the varying capacities of physical systems, such as watersheds, to support human activity. E-5: Analyze the consequences of human modification of the environment and evaluate the changing landscape.
	Std 18: Apply geography to interpret the present and plan for the future	F-2: Understand compare, contrast and predict how places change through time. F-3: Analyze resource management practices to assess their impact on future environmental quality. F-4: Interpret demographic trends to project future changes and impacts on human environmental systems. F-5: Examine the impacts of global changes on human activity.
4	Std 4: Physical and human characteristics of places	B-1: Know that places have distinctive geographic characteristics.
	Std 14: Human actions modify the physical environment	E-2: Recognize and assess local, regional, and global patterns of resource use. E-3: Understand the varying capacities of physical systems, such as watersheds, to support human activity. E-4: Determine the influence of human perception on resource utilization and the environment.
	Std 15: How physical systems affect human systems	E-6: Evaluate the impact of physical hazards on human systems.

Module 4: Remote sensing and geoarchaeology

Inv	Geography for Life	State Standard(s) Connection
1	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-1: Use maps and globes to locate places and regions.
	Std 16: Meaning, use, distribution, and importance of resources	E-4: Determine the influence of human perception on resource utilization and the environment.
2	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-1: Use maps and globes to locate places and regions. A-4: Use graphic tools and technologies to depict and interpret the world's human and physical systems.
3	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-1: Use maps and globes to locate places and regions. A-4: Use graphic tools and technologies to depict and interpret the world's human and physical systems.
	Std 4: Physical and human characteristics of places	B-1: Know that places have distinctive geographic characteristics. B-2: Analyze how places are formed, identified, named, and characterized. B-3: Relate how people create similarities and differences among places.

Grades 9-12

Module 1: What's up with Earth's water resources?

Inv	Geography for Life	State Standard(s) Connection
1	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-1: Use maps and globes to locate places and regions. A-4: Use graphic tools and technologies to depict and interpret the world's human and physical systems. A-5: Evaluate the importance of locations of human and physical features in interpreting geographic patterns. A-6: Use spatial (geographic) tools and technologies to analyze and develop explanations and solutions to geographic problems.
	Std 8: Characteristics and spatial distribution of ecosystems	C-1: Analyze the operations of Earth's physical systems including ecosystems, climate systems, erosion systems, the water cycle and tectonics.
	Std 14: Human actions modify the physical environment	E-2: Recognize and assess local, regional, and global patterns of resource use. E-4: Determine the influence of human perception on resource utilization and the environment.
2	Std 4: Physical and human characteristics of places	B-1: Know that places have distinctive geographic characteristics. B-3: Relate how people create similarities and differences among places. B-8: Compare, contrast, and predict how places and regions change with time.
	Std 7: Physical processes that shape Earth	C-1: Analyze the operations of Earth's physical systems including ecosystems, climate systems, erosion systems, the water cycle and tectonics. C-2: Distinguish the functions, forces and dynamics of the physical processes that cause variations in natural regions.
	Std 14: Human actions modify the physical environment	E-3: Understand the varying capacities of physical systems, such as watersheds, to support human activity. E-4: Determine the influence of human perception on resource utilization and the environment.
	Std 15: How physical systems affect human systems	E-6: Evaluate the impact of physical hazards on human systems.
3	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-3: Understand how and why maps are changing documents. A-4: Use graphic tools and technologies to depict and interpret the world's human and physical systems. A-5: Evaluate the importance of locations of human and physical features in interpreting geographic patterns. A-6: Use spatial (geographic) tools and technologies to analyze and develop explanations and solutions to geographic problems.

	Std 14: Human actions modify the physical environment	E-1: Understand how resources have been developed and used. E-2: Recognize and assess local, regional, and global patterns of resource use. E-4: Determine the influence of human perception on resource utilization and the environment.
	Std 15: How physical systems affect human systems	E-6: Evaluate the impact of physical hazards on human systems.
4	Std 7: Physical processes that shape Earth	C-1: Analyze the operations of Earth's physical systems including ecosystems, climate systems, erosion systems, the water cycle and tectonics.
	Std 15: How physical systems affect human systems	E-1: Understand how resources have been developed and used. E-4: Determine the influence of human perception on resource utilization and the environment.
	Std 18: Apply geography to interpret the present and plan for the future	F-1: Analyze and evaluate the impact of physical and human geographical factors on major historical events. F-2: Understand compare, contrast and predict how places change through time. F-3: Analyze resource management practices to assess their impact on future environmental quality. F-4: Interpret demographic trends to project future changes and impacts on human environmental systems.

Module 2: Where will your next meal come from?

Inv	Geography for Life	State Standard(s) Connection
1	Std 14: Human actions modify the physical environment	E-1: Understand how resources have been developed and used. E-2: Recognize and assess local, regional, and global patterns of resource use.
	Std 15: How physical systems affect human systems	E-3: Understand the varying capacities of physical systems, such as watersheds, to support human activity.
	Std 16: Meaning, use, distribution, and importance of resources	E-4: Determine the influence of human perception on resource utilization and the environment. E-5: Analyze the consequences of human modification of the environment and evaluate the changing landscape.
2	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-3: Understand how and why maps are changing documents. A-4: Use graphic tools and technologies to depict and interpret the world's human and physical systems. A-5: Evaluate the importance of locations of human and physical features in interpreting geographic patterns.

	Std 14: Human actions modify the physical environment	E-1: Understand how resources have been developed and used. E-2: Recognize and assess local, regional, and global patterns of resource use. E-3: Understand the varying capacities of physical systems, such as watersheds, to support human activity. E-4: Determine the influence of human perception on resource utilization and the environment. E-5: Analyze the consequences of human modification of the environment and evaluate the changing landscape.
	Std 18: Apply geography to interpret the present and plan for the future	F-2: Understand compare, contrast and predict how places change through time. F-3: Analyze resource management practices to assess their impact on future environmental quality.
3	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-4: Use graphic tools and technologies to depict and interpret the world's human and physical systems. A-5: Evaluate the importance of locations of human and physical features in interpreting geographic patterns. A-6: Use spatial (geographic) tools and technologies to analyze and develop explanations and solutions to geographic problems.
	Std 5: Regions interpret Earth's complexity	B-1: Know that places have distinctive geographic characteristics. B-3: Relate how people create similarities and differences among places.
	Std 9: Characteristics, distribution and migration of humans	D-2: Explain how and why human networks, including networks for communications and for transportation of people and goods are linked globally. D-3: Interpret population characteristics and distributions. D-5: Analyze how conflict and cooperation shape social, economic, and political use of space.
	Std 14: Human actions modify the physical environment	E-1: Understand how resources have been developed and used. E-2: Recognize and assess local, regional, and global patterns of resource use. E-3: Understand the varying capacities of physical systems, such as watersheds, to support human activity. E-4: Determine the influence of human perception on resource utilization and the environment. E-5: Analyze the consequences of human modification of the environment and evaluate the changing landscape. E-6: Evaluate the impact of physical hazards on human systems.

Module 3: What are the causes and consequences of climate change?

Inv	Geography for Life	State Standard(s) Connection
1	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-3: Understand how and why maps are changing documents. A-4: Use graphic tools and technologies to depict and interpret the world's human and physical systems. A-6: Use spatial (geographic) tools and technologies to analyze and develop explanations and solutions to geographic problems.
	Std 7: Physical processes that shape Earth	C-1: Analyze the operations of Earth's physical systems including ecosystems, climate systems, erosion systems, the water cycle and tectonics. C-2: Distinguish the functions, forces and dynamics of the physical processes that cause variations in natural regions.
	Std 15: How physical systems affect human systems	E-3: Understand the varying capacities of physical systems, such as watersheds, to support human activity. E-4: Determine the influence of human perception on resource utilization and the environment. E-5: Analyze the consequences of human modification of the environment and evaluate the changing landscape. E-6: Evaluate the impact of physical hazards on human systems.
	Std 18: Apply geography to interpret the present and plan for the future	F-1: Analyze and evaluate the impact of physical and human geographical factors on major historical events. F-2: Understand compare, contrast and predict how places change through time. F-3: Analyze resource management practices to assess their impact on future environmental quality. F-4: Interpret demographic trends to project future changes and impacts on human environmental systems.
2	Std 7: Physical processes that shape Earth	C-1: Analyze the operations of Earth's physical systems including ecosystems, climate systems, erosion systems, the water cycle and tectonics. C-2: Distinguish the functions, forces and dynamics of the physical processes that cause variations in natural regions.
	Std 10 Characteristics, distribution, and complexity of Earth's cultural mosaics	D-1: Know that the need for people to exchange goods, services, and ideas creates cultural interaction and transportation and communication links. D-2: Explain how and why human networks, including networks for communications and for transportation of people and goods are linked globally. D-3: Interpret population characteristics and distributions. D-4: Analyze how changes in technology, transportation, and communication impact social, cultural, economic, and political activity.

	Std 14: Human actions modify the physical environment	E-1: Understand how resources have been developed and used. E-2: Recognize and assess local, regional, and global patterns of resource use. E-3: Understand the varying capacities of physical systems, such as watersheds, to support human activity. E-4: Determine the influence of human perception on resource utilization and the environment.
	Std 15: How physical systems affect human systems	E-5: Analyze the consequences of human modification of the environment and evaluate the changing landscape. E-6: Evaluate the impact of physical hazards on human systems.
3	Std 1: Use maps to acquire, process, and report information from a spatial perspective	A-4: Use graphic tools and technologies to depict and interpret the world's human and physical systems. A-6: Use spatial (geographic) tools and technologies to analyze and develop explanations and solutions to geographic problems.
	Std 7: Physical processes that shape Earth	C-1: Analyze the operations of Earth's physical systems including ecosystems, climate systems, erosion systems, the water cycle and tectonics. C-2: Distinguish the functions, forces and dynamics of the physical processes that cause variations in natural regions.
	Std 14: Human actions modify the physical environment	E-3: Understand the varying capacities of physical systems, such as watersheds, to support human activity. E-4: Determine the influence of human perception on resource utilization and the environment. E-5: Analyze the consequences of human modification of the environment and evaluate the changing landscape.
	Std 15: How physical systems affect human systems	E-6: Use spatial (geographic) tools and technologies to analyze and develop explanations and solutions to geographic problems.