

## Mission Geography and Arkansas

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	SS:Str2-Std2 Students will demonstrate an understanding of the significance of physical and cultural characteristics of places and world regions PPE.2.1-2.4-2.5-2.6
2	Std 1: Use maps to acquire, process, and report information from a spatial perspective	SS:as above
3	Std 1: Use maps to acquire, process, and report information from a spatial perspective	SS.:as above
4	Std 1: Use maps to acquire, process, and report information from a spatial perspective	SS: as above
	Std 8: Characteristics and spatial distribution of ecosystems	SS: Str.2 STD2 PPE2.6 Explore and communicate how technology affects geography.

\*\* AR Science Standards for Module 1:

Str1Std1PS1.2:Use simple equipment,age-appropriate tools,skills,technology and mathematics in scientific investigations

Str3Std2ES.2.7: Discuss landforms in the ocean and how they change

Str2Std3LS3.3:Identify that humans change environments in ways that can be beneficial .

#### 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	SS: Str 5 Std1: SPS1.3 Student will demonstrate critical thinking skill through.....

	Std 7: Physical processes that shape Earth SS Str2 Std 2 PPE2.1 Explain how geography	
	Std 3: Analyze spatial organization of people, places, environment SS - Str2 Std2(as above)	
2	Std 1: Use maps to acquire, process, and report information from a spatial perspective	SS-Str 2 Std 2 PPE.2.1 Explain how geography and the environment affect.....
	Std 4: Physical and human characteristics of places	SS :Str 2 Std 2 PPE2.3 compare and contrast the
3	Std 2: Use mental maps to organize information about people, places, environments	SS:Str2Std2-PPE2.5:Understand geographical terms such as mental mapping,spatial.....
	Std 7: Physical processes that shape Earth (as above #7)	
4	Std 7: Physical processes that shape Earth (" " ")	
	Std 18: Apply geography to interpret the present and plan for the future	SS:Str3Std3: Students will demonstrate an understanding that different economic systems and limited resources influence

\*\*AR Science Standards for Module 2:

Str1Std1PS.1.2(as above)

Str2Std1LS1.2:Select age- appropriate equipment and utilize technology and mathematics in the inquiry of life science

Str2Atd2LS.2.1:Identify the characteristics of living and non-living things

### 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	SS;Str2Std2PPE2.5 Understand geographical terms such as mental .....
	Std 4: Physical and human characteristics of places	SS:Str2Std2 PPE2.3Compare and contrast....
2	Std 1: Use maps to acquire,	SS:Str.2Std2PPE2.2 Understand and apply the 5

	process, and report information from a spatial perspective	themes....
	Std 4: Physical and human characteristics of places	SS:Str2Std2PPE2.1 Explain how geography and environment.....
3	Std 2: Use mental maps to organize information about people, places, environments	SS:Str2Std2PPE2.5 Understand geographical terms such as mental mapping
	Std 17: How to apply geography to interpret the past	SS:Str1Std2 TCC2.4 Explain how people
4	Std 1: Use maps to acquire, process, and report information from a spatial perspective	SS.Str2Std2 PPE2.5 (as above in Inv.1)
	Std 4: Physical and human characteristics of places	SS:Str2Std2PPE2.1:Explain how people
.....		

\*\*AR science standards for module 3:

Str1Std1PS.1.2(as above)

Str2Std1LS1.2

(as above)

### 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	SS:Str2Std2 Understand geographical terms
	Std 14: Human actions modify the physical environment	SS:Str2 Std1PPE1.5:Analyze the effects of interactions between...
2	Std 2: Use mental maps to organize information about people, places, environments	SS:Str2Std2PPE2.5:Understand geographical terms such as mental mapping
	Std 14: Human actions modify the physical environment	SS:Str2Std1PPE1.5: (as above)
3	Std 1: Use maps to acquire, process, and report information from a spatial perspective	SS:Str2Std2Understand geographical terms

	Std 15: How physical systems affect human systems	SS:Str2Std2 PPE2 Explain how geography and the environment..
4	Std 15: How physical systems affect human systems	(as above)
	Std 18: Apply geography to interpret the present and plan for the future	PDC.1.2PDC1.7 Apply the concept that goods and services are limited by available SS: Str3Std1 resources, requiring individuals and....
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\*\*AR Science standards for module 4:

Str1Std1PS.1.2(as above)

Str2Std3.LS.3.3: Identify that humans change environments in ways that can be beneficial or detrimental for themselves and other organisms.

Str2Std3LS.3.1 Understand that life sciences are interwoven into all disciplines.

## 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	SS:Str2Std2Ppe2.1 Explain how geography and the environment
	Std 7: Physical processes that shape Earth	SS:Str2Std2 PPE2 (as above)
	Std 3: Analyze spatial organization of people, places, environment	SS:Str2Std1 Students will demonstrate an understanding of the chronology and concepts
2	Std 1: Use maps to acquire, process, and report information from a spatial perspective	SS:Str5Std1 SSPS2.3 :Students will demonstrate the ability to use the tools....
	Std 3: Analyze spatial organization of people, places, environments	SS:Str5Std2SSPS2.2Use mental mapping understand spatial.
	Std 7: Physical processes that shape Earth	Str2Std2PPE2.2: Apply knowledge of the major processes

\*\*\*AR Science 5-8Standards Module 1:

Str1Std3PS.3.3:Apply multiple strategies to problem solving  
 Str2Std1LS1.2Interpret scientific information from graphs and charts  
 Str3Std2ES2.3:Investigate how Earth's internal processes affect external features.  
 Str3Std2ES.2.4:Understand the effects of weathering and erosion on the Earth's surface.

**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	SS: Str5Std2 SSPS2.3:Students will demonstrate the ability to use the tools.....
	Std 3: Analyze spatial organization of people, places, environments	SS:Str2Std1PPE1.6 Use appropriate methods and tools, such as field studies, simulations,interactive..
2	Std 1: Use maps to acquire, process, and report information from a spatial perspective	(as above)
	Std 3: Analyze spatial organization of people, places, environments (as above)	
3	Std 4: Physical and human characteristics of places	SS:Str2Std2 PPE2.4 Identify and
	Std 7: Physical processes that shape Earth	SS:Str2Std2PPE2.2: Apply knowledge of the major processes
4	Std 4: Physical and human characteristics of place(as above)	
	Std 18: Apply geography to interpret the present and plan for the future	SS:Str5Std2

\*\*AR Science Standards 5-8 Module2:

Str1Std1PS1.4:Interpret scientific information from charts.  
 Str 2Std2LS.2.9 Explain how physical and /or behavioral characteristics of organisms help them to adapt and survive in their environments.  
 Str3Std1ES.1.2: Understand that Earth and objects in space constantly undergo changes and/or cycles which can be observed and measured.

**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	SS:Str3Std 1 PDC 1.2Explore and explain how changes in areas such as technology, transporatiation and communications affect economic activity.
2	Std 14: Human actions modify the physical environment	SS:Str2Std1 PPE Explore how language, literature,the arts,
3	Std 12: Processes, patterns, and functions of human settlement	SS:Str2Std2 PPE2.4:Identify and interpret physical and cultural patterns
	Std 14: Human actions modify the physical environment SS:(as above)	
	Std 18: Apply geography to interpret the present and plan for the future (as above)	
4	Std 4: Physical and human characteristics of places SS:	(as above PPE2.4)
	Std 14: Human actions modify the physical environment SS:	(as above PPE1.5)
	Std 15: How physical systems affect human systems	SS:Str2Std2PPE2..3 Analyze how humans have altered and been affected by physical environments

\*\*AR Science Standards5-8 Module3:

Str3Std2ES..2.13:Explore past, present and future space technology.

Str.2Std2LS.2.12 Evaluate human impact on the environment.

Str2Std2LS.2.11:Analyze ecosystems in terms of population relationships, foodwebs,.....

#### **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	SS:Str2Std2 PPE2.1 and2.7: Locate and describe and varying land forms and Demonstrate and understanding of the uses of maps and GIS....
	Std 16: Meaning, use, distribution, and importance of resources	SS:Str3Std1PDC1.6 Demonstrate how limited resources necessitate dicision-making
2	Std 1: Use maps to acquire, process, and report information	(SS as above)

	from a spatial perspective	
3	Std 1: Use maps to acquire, process, and report information from a spatial perspective	(SS:As above)
	Std 4: Physical and human characteristics of places	(as above PPE2.4)

\*\*AR Science Standards 5-8 Module 4 :

Str3Sstd2ES2.13(as above)

Str3Std1ES1.2(as above)

\Str3Std3ES3.7 Explore the impact of space technology on society.

ES.3.8Illustrate the positive and negative effects of human use of natural resources on Earth.

## 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	SS;Str2Std2PPE2.1: Formulate connections of .....
	Std 8: Characteristics and spatial distribution of ecosystems	SS: Str2Std2PPE2.5 Investigate ways that natural and man-made environments interact
	Std 14: Human actions modify the physical environment	SS: Str2Std2PPE2.1
2	Std 4: Physical and human characteristics of places	SS:Str2Std2Students will demonstrate an understanding of the significance of physical and cultural characteristics and world regions
	Std 7: Physical processes that shape Earth	SS:Str2Std2 PPE2.5:Investigate ways that natural and man-made environments interact with culture by using a variety
	Std 14: Human actions modify the physical environment	SS:Str2Std2 PPE2.1
	Std 15: How physical systems affect human systems	SS:Str2Std2PPE2.2 Question and appraise how events in all cultures are influenced by physical and human geographic
3	Std 1: Use maps to acquire, process, and report information from a spatial perspective(	(SS:as above)
	Std 14: Human actions modify the physical environment	(SS:as above)
	Std 15: How physical systems affect human systems	(SS:as above)
4	Std 7: Physical processes that shape Earth	(SS:as above)
	Std 15: How physical systems affect human systems	(SS:as above)
	Std 18:Apply geography to	SS:Str3StdPDC1.8 Identify and evaluate critical

	interpret the present and plan for the future	current issues related to the use of resources.
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\*\*AR Science Standards 9-12 Module 1:

Str1Std1PS.1.2:Follow procedures for a scientific inquiry using step by step instructions, mathematical formulas,flow diagrams and/or sketches.

Str2Std1LS.1.1Understand that science is a process based on the scientific method which leads to a deeper understanding of real world situation.

LS.1.5:Make objective observations and perform error analysis on collected data.

Str3Std2 Students will explore,demonstrate, communicate,apply and evaluate knowledge of the properties of Earth and space systems.

Str3Std2ES.2.16 Analyze the impact of modern technology on the study of the Earth and universe

Str3Std3ES.Assess the connections between pure science and applied science to the world of work ...

## 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	SSStr2Std2PPE.2.1: Formulate connections of individuals groups and organizations
.....		
	Std 15: How physical systems affect human systems	SS Str2Std2PPE.2.2: Question and appraise how events in all cultures.....
	Std 16: Meaning, use, distribution, and importance of resources	SSStr3Std1PDC1.1 Describe the various institutions at local and state and national levels that constitute economic systems.
2	Std 1: Use maps to acquire, process, and report information from a spatial perspective	SS:Str3Std1PDC1.5 Demonstrate understanding of scarcity and choice by using .....
	Std 14: Human actions modify the physical environment	SS:Str2Std2PPG.2.19 (as above)
	Std 18: Apply geography to interpret the present and plan for the future	SS:Str3Std1PDC.1.2 (as above)
3	Std 1: Use maps to acquire, process, and report information from a spatial perspective	SS:Str3Std1PDC1.5(as above)

	Std 5: Regions interpret Earth's complexity	SS:Str2Std2PPE.2.2 Question and appraise how events in all cultures are influenced.
	Std 9: Characteristics, distribution and migration of humans	SS:Str2Std2PPE2.4: Extract commonalities and differences among cultures as they relate.....
	Std 14: Human actions modify the physical environment	SS:STr2Std1PPG.2.1 (as above)

\*\*AR Science Standards 9-12Module2:None given

### 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	SS:Str3Std1Pdc: 1.5(as above)
	Std 7: Physical processes that shape Earth	SS:Std2Std2PPE.2.5:(as above)
	Std 15: How physical systems affect human systems	SS:Str2Std2PPE.2.2:(as above)
	Std 18: Apply geography to interpret the present and plan for the future	SS:Str3Std1PDC.1.2:(as above)
2	Std 7: Physical processes that shape Earth	SS:Std2Std2PPE.2.5:(as above)
	Std 10 Characteristics, distribution, and complexity of Earth's cultural mosaics	SS:Str2Std2PPE.2.3:Generate both current and historical examples..
	Std 14: Human actions modify the physical environment	SS:std2Std2PPG.2.1: (as above)
	Std 15: How physical systems affect human systems	SS:Str2Std2PPE.2.2(as above)
3	Std 1: Use maps to acquire, process, and report information from a spatial perspective	SS:Str3Std1PDC.1.5:(as above)

	Std 7: Physical processes that shape Earth	SS:Str2Std2PPE.2.5:(as above)
	Std 14: Human actions modify the physical environment	SS:Str2Std2PPG2.1
	Std 15: How physical systems affect human systems	SS:Str2Std2PPE.2.2:(as above)

\*\*AR Science Standards 9-12 Module 3:

Str1Std3PS3.3:Assess current world issues applying scientific themes(suggested issues:global changes in climate,ozone depletion....)

3.5:Apply technology as appropriate tools for solving problems

Str2Std2LS2.13:Investigate and explain the interactions in an ecosystem including food chains....

SStr2Std3LS.3.2 Evaluate long range plans for resource use and by-product disposal in terms of environmental,economic.....

LS.3.5:Apply technology as appropriate tools for solving problems.....

Str3Std3ES.3.2 Evaluate long range plans for resource use...

ES.3.3:Assess current world issues applying scientific themes.....

ES.3.5:Apply technology as appropriate tools for solving problems.....

Arkansas standards based the Arkansas Curriculum Frameworks (revised 2000) <http://arkedu.state.ar.us>

You may find additional expectations more applicable for you individual classroom.

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