



Alabama Content Standards at a Glance

In this unit, students will discover and practice the Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts needed to perform the following Alabama Content Standards.

Alabama Content Standards	MODULE: Plants and Animals
3	•
4	•
6	•



Correlations by Module

MODUL	E: Plants and Animals	
DCI Ecosys	tems: Interactions, Energy, and Dynamics	
Structures and Processes		
3	Use data from observations to distinguish characteristics of living and nonliving things.	7, 9, 11, 13, 14–15, 18
SEP Science and Engineering Practices		
Collecting, reco	Interpreting Data ording, and sharing observations.	
	utting Concepts	
Patterns Patterns in the	natural and human-designed world can be observed, used to describe p	henomena, and used as evidence.

DCI Ecosystems: Interactions, Energy, and Dynamics

Structures and Processes

Use observations to determine patterns of what plants and animals (including humans) need to survive, including light, water, and nutrients.

14-15, 19, 22-23, 24, 25, 26-27

SEP Science and Engineering Practices

Analyzing and Interpreting Data

Collecting, recording, and sharing observations.

CCC Crosscutting Concepts

Patterns

Patterns in the natural and human-designed world can be observed, used to describe phenomena, and used as evidence.

DCI Ecosystems: Interactions, Energy, and Dynamics

Interdependent Relationships



Use models of natural habitats to represent the interdependence among plants and animals native to their community.

Examples: school garden, terrarium, aquarium, classroom animal habitat (worms, geckos, butterflies), virtual habitat models

28-29, 34-35, 48-49, 50-51, 53, 54, 55-56

SEP Science and Engineering Practices

Developing and Using Models

Using and developing models that represent concrete events or design solutions, including diagrams, drawings, physical replicas, dioramas, dramatizations, or storyboards.

CCC Crosscutting Concepts

Systems and System Models

Objects and organisms can be described in terms of their parts. Systems in the natural and designed world have parts that work together.

Other Correlations		
Alabama Course of Study: English Language Arts Connections		
2, 22	19, 23, 31, 35, 41, 55–56	
* -	Teacher's Edition <i>Only</i> : 13, 24, 27, 33, 36, 43, 45, 54	
3	25	
32, 32c.	25	
33	18, 23, 27, 29, 30, 35, 38, 40, 45, 54, 55–56	
Open Court Reading Connections		
Alabama Inspire Science, Grade K, Unit 1, Module 1, Lesson 1	Open Court Reading, Grade K, Unit 7, Lesson 1–Lesson 3; Unit 8, Lesson 1–Lesson 3	
Alabama Inspire Science, Grade K, Unit 1, Module 1, Lesson 2	Open Court Reading, Grade K, Unit 7, Lesson 1–Lesson 3; Unit 8, Lesson 1–Lesson 3	
Alabama Inspire Science, Grade K, Unit 1, Module 1, Lesson 3	Open Court Reading, Grade K, Unit 7, Lesson 1	
Alabama Inspire Science, Grade K, Unit 1, Module 1, Lesson 4	Open Court Reading, Grade K, Unit 8, Lesson 1-Lesson 3	



Alabama Content Standards at a Glance

In this unit, students will discover and practice the Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts needed to perform the following Alabama Content Standards.

Alabama Content Standards	MODULE: Changes to the Environment	MODULE: Protect Earth
5	•	
11		•



Correlations by Module

MODULE: Changes to the Environment

DCI Ecosystems: Interactions, Energy, and Dynamics

Interdependent Relationships



Gather information from observations and media to explain how plants and animals can provide for their needs by changing their environment.

Examples: tree roots breaking a sidewalk to provide space, red fox burrowing to create a den to raise young, humans growing gardens for food and building roads for transportation, birds and beavers using available materials to construct their homes

10-11, 14-15, 16-17, 22-23, 24, 26, 28-29, 30-31, 36-37, 42-43, 44-45, 49-50

SEP Science and Engineering Practices

Engaging in Argument from Evidence

Comparing ideas and representations about the natural and designed world(s).

CCC Crosscutting Concepts

Systems and System Models

Objects and organisms can be described in terms of their parts. Systems in the natural and designed world have parts that work together.

Other Correlations		
Alabama Course of Study: English Language Arts Connections		
а з	28	
4	35	
29	13, 42–43	
30	26, 42–43	
33	21	
Open Court Reading Connections		
Alabama Inspire Science, Grade K, Unit 2, Module 1, Lesson 1	Unit 1: Open Court Reading, Grade K Unit 7: Lesson 1–Lesson 3	
Alabama Inspire Science, Grade K, Unit 2, Module 1, Lesson 2	Open Court Reading, Grade K, Unit 8: Lesson 2-Lesson 3	
Alabama Inspire Science, Grade K, Unit 2, Module 1, Lesson 3	Open Court Reading, Grade K, Unit 5: Lesson 1, Lesson 3	



MODULE: Protect Earth		
DCI Earth and Human Activity		
Human Imp	pact	
11	Identify a problem and design possible solutions that lessen the human impact on the local environment. Examples: Notice trash accumulating on the playground and come up with a plan to address it; observe gravel washing from a driveway onto a grassy area and create a barrier to keep the rocks in place.	60–62, 66, 72–73, 74, 76, 83–84

Continued from previous page.

SEP Science and Engineering Practices

Constructing Explanations and Designing Solutions

Using evidence and ideas in constructing evidence-based accounts of natural phenomena and designing solutions.

CCC Crosscutting Concepts

Cause and Effect: Mechanism and Prediction

Events have causes that generate observable patterns. Simple tests can be designed to gather evidence to support or refute students' ideas about causes.

Other Correlations		
Alabama Course of Study: English Language Arts Connections		
A 3	74, 76	
4	59	
5b., 27, 27a.	74	
26	63	
30	63	
39a., 39b.	79	
Open Court Reading Connections		
Alabama Inspire Science, Grade K, Unit 2, Module 2, Lesson 1	Open Court Reading, Grade K Unit 5: Lesson 2; Unit 8: Lesson 3	
Alabama Inspire Science, Grade K, Unit 2, Module 2, Lesson 2	Open Court Reading, Grade K, Unit 5: Lesson 1, Lesson 2	



Alabama Content Standards at a Glance

In this unit, students will discover and practice the Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts needed to perform the following Alabama Content Standards.

Alabama Content Standards	MODULE: Weather	MODULE: The Sun and Earth's Surface
7		•
8		•
9	•	
10	•	



Correlations by Module

DCI Eart	h's Systems	
Weather		
9	Observe, record, and communicate local weather patterns over a period of time. Examples: daily increase in temperature from morning to afternoon, typical rain and storm patterns from season to season	13, 22–23, 25–26, 28–29, 30-31
SEP Scie	nce and Engineering Practices	
	nd Interpreting Data ecording, and sharing observations.	
CCC Cros	sscutting Concepts	

DCI Earth's Systems

Weather

10

Obtain, evaluate, and communicate information about using weather forecasts to make plans and prepare for severe weather. 36, 36-37, 53, 58-59

SEP Science and Engineering Practices

Obtaining, Evaluating, and Communicating Information

Using observations and texts to gather and communicate new information.

CCC Crosscutting Concepts

Patterns

Patterns in the natural and human-designed world can be observed, used to describe phenomena, and used as evidence.

Other Correlations		
Alabama Course of Study: English Language Arts Connections		
1a., 5a.	16, 26, 31, 35, 49, 52–53 Teacher's Edition <i>Only</i> : 21, 35, 47, 56–57	
2, 22	31, 33, 37, 39, 49, 53, 56–57 Teacher's Edition <i>Only</i> : 2, 27, 29, 35	
3, 30	Teacher's Edition <i>Only</i> : 37	
17, 21a., 21b., R3.	Teacher's Edition <i>Only</i> : 43, 50	
26, 29, 32	Teacher's Edition <i>Only</i> : 50	
33	9, 15, 18, 24, 27, 31, 41, 48–49, 52–53, 60 Teacher's Edition <i>Only</i> : 5, 35, 37, 47, 50, 59	
Open Court Reading Connections		
Alabama Inspire Science, Grade K, Unit 3, Module 1, Lesson 1	Open Court Reading, Grade K, Unit 3, Lesson 1 – Lesson 3	
Alabama Inspire Science, Grade K, Unit 3, Module 1, Lesson 2	Open Court Reading, Grade K, Unit 3, Lesson 1 – Lesson 3	
Alabama Inspire Science, Grade K, Unit 3, Module 1, Lesson 3	Open Court Reading, Grade K, Unit 3, Lesson 1 – Lesson 3	
Alabama Inspire Science, Grade K, Unit 3, Module 1, Lesson 4	Open Court Reading, Grade K, Unit 3, Lesson 1 – Lesson 3	



Correlations by Module

MODULE: The Sun and Earth's Surface

DCI Earth's Systems

Energy Transfer

7

Make observations and describe the effects of sunlight on Earth's surface.

Examples: evaporation of water or increased temperature of soil, rocks, and sand caused by direct and indirect sunlight

69, 71, 72–73, 74–75, 76–77, 78–79, 84–85

SEP Science and Engineering Practices

Planning and Carrying Out Investigations

Designing and conducting simple investigations, based on fair tests, which provide data to support explanations or design solutions.

CCC Crosscutting Concepts

Cause and Effect: Mechanism and Prediction

Events have causes that generate observable patterns. Simple tests can be designed to gather evidence to support or refute students' ideas about causes.

DCI Earth's Systems

Energy Transfer



Design, construct, and test a device to reduce the effects of sunlight.

Examples: hat, canopy, umbrella, tent

88–89, 90–91, 95–96

SEP Science and Engineering Practices

Constructing Explanations and Designing Solutions

Using evidence and ideas in constructing evidence-based accounts of natural phenomena and designing solutions.

CCC Crosscutting Concepts

Cause and Effect: Mechanism and Prediction

Events have causes that generate observable patterns. Simple tests can be designed to gather evidence to support or refute students' ideas about causes.

Other Correlations Alabama Course of Study: English Language Arts Connections	
2, 22	Teacher's Edition Only: 74, 83
A 3	Teacher's Edition Only: 86
2 6	Teacher's Edition Only: 74, 86
2 7a.	Teacher's Edition Only: 74
A 33	Teacher's Edition Only: 92–93
37d., 37e, R5.	Teacher's Edition <i>Only</i> : 96



Alabama Content Standards at a Glance

In this unit, students will discover and practice the Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts needed to perform the following Alabama Content Standards.

Alabama Content Standards	MODULE: Forces and Motion
1	•
2	•



Correlations by Module

MODIII E	Forces and Motion	
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DCI Motion and Stability: Forces and Interactions

Changes in Motion



Plan and carry out investigations to determine the effects of forces of different strengths and directions on the motion of an object, including speed, direction, and distance traveled. Examples: pushing, pulling, or crashing objects

10-11, 13-14, 22, 23, 34-35, 45-49

SEP Science and Engineering Practices

Planning and Carrying Out Investigations

Designing and conducting simple investigations, based on fair tests, which provide data to support explanations or design solutions.

CCC Crosscutting Concepts

Cause and Effect: Mechanism and Prediction

Events have causes that generate observable patterns. Simple tests can be designed to gather evidence to support or refute students' ideas about causes.

DCI Motion and Stability: Forces and Interactions

Changes in Motion

Analyze data from investigations to determine whether a design solution provides sufficient force to change the speed or direction of an object.

Example: constructing a ramp to increase or decrease the speed of a moving object

16-17, 25-27, 45-49

SEP Science and Engineering Practices

Analyzing and Interpreting Data

Collecting, recording, and sharing observations.

CCC Crosscutting Concepts

Cause and Effect: Mechanism and Prediction

Events have causes that generate observable patterns. Simple tests can be designed to gather evidence to support or refute students' ideas about causes.

Other Correlations		
Alabama Course of Study: English Language Arts Connections		
A 3	11, 15, 24, 36	
26	12, 15	
30	4–5, 24, 36	
33	37	
Open Court Reading Connections		
Alabama Inspire Science, Grade K, Unit 4, Module 1, Lesson 1	Open Court Reading, Grade K, Unit 4, Lesson 1 - Lesson 3	
Alabama Inspire Science, Grade K, Unit 4, Module 1, Lesson 1	Open Court Reading, Grade K, Unit 4, Lesson 1 - Lesson 3	