

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: Plant Structures and Functions	MODULE: Plant Parents and Their Offspring
5	•	•
7		•



Correlations by Module

MODULE: Plant Structures and Functions

DCI From Molecules to Organisms: Structures and Processes

External Structures

Use information from observations to explain how various external features help living things survive, grow, and meet Examples: a rose's thorns, a giraffe's long neck

3, 7, 8, 10–12, 13, 14–15, 16–17, 18–19, 20-21, 23, 25, 26, 32-33, 34-35, 38-39, 40, 41

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

Structure and Function

The shape and stability of structures of natural and designed objects are related to their function(s).

Other Correlations	
Alabama Course of Study: English Language Arts Connections	
A 19	15, 32
22	12, 31
42a., 42b.	42

Continued from previous page.

Open Court Reading Connections		
Alabama Inspire Science, Grade 1, Unit 1, Module 1, Lesson 1	Open Court Reading, Grade 1, Unit 7, Lesson 1-Lesson 3	
Alabama Inspire Science, Grade 1, Unit 1, Module 1, Lesson 2	Open Court Reading, Grade 1, Unit 7, Lesson 1-Lesson 3	



Correlations by Module

MODULE: Plant Parents and Their Offspring

DCI From Molecules to Organisms: Structures and Processes

External Structures



Use information from observations to explain how various external features help living things survive, grow, and meet their needs.

Examples: a rose's thorns, a giraffe's long neck

3, 7, 8, 10–12, 13, 14–15, 16–17, 18–19, 20-21, 23, 25, 26, 32-33, 34-35, 38-39, 40, 41

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

Structure and Function

The shape and stability of structures of natural and designed objects are related to their function(s).

DCI Heredity: Inheritance and Variation of Traits

Inherited Traits and Environmental Impact



Make observations to identify the similarities and differences between offspring and their parents.

Examples: flowers from the same kind of plant being the same shape, but differing in size; dog being same breed as parent, but differing in fur color or pattern

54-57, 58-59, 60-61

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

Patterns

Next Generation Science Standards

Continued from previous page.

Other Correlations		
Alabama Course of Study: English Language Arts Connections		
19	59	
21, 23b., 26,	74	
42a., 42b.	57, 82	
Open Court Reading Connections		
Alabama Inspire Science, Grade 1, Unit 1, Module 2, Lesson 2	Open Court Reading, Grade 1, Unit 7, 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: Animal Parents and Their Offspring	MODULE: Communication
1		•
4		•
5	•	
6	•	•
7	•	



Correlations by Module

MODULE: Animal Parents and Their Offspring

DCI From Molecules to Organisms: Structures and Processes

External Structures

Use information from observations to explain how various external features help living things survive, grow, and meet their needs.

Examples: a rose's thorns, a giraffe's long neck

7-20, 21-34, 51-68

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

Structure and Function

The shape and stability of structures of natural and designed objects are related to their function(s).

DCI From Molecules to Organisms: Structures and Processes

Growth and Development

Obtain information from text and other media to provide evidence 86-87, 88-89, 90 that parents and their offspring engage in patterns of behavior that help the offspring survive.

Examples: Offspring send signals such as crying or other vocalization and the parent responds by comforting, feeding, and protecting the offspring.

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.

DCI Heredity: Inheritance and Variation of Traits

Inherited Traits and Environmental Impact



Make observations to identify the similarities and differences between offspring and their parents.

Examples: flowers from the same kind of plant being the same shape, but differing in size; dog being same breed as parent, but differing in fur color or pattern

35, 38-41, 42, 44-45

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

Patterns



Continued from previous page.

Other Correlations		
Alabama Course of Study: English Language Arts Connections		
19	57	
20	12	
21	57	
23b	57	
26	57	
29	43, 58	
34	68	
35	20	
R4	50	
R5	20, 68	
Open Court Reading Connections		
Alabama Inspire Science, Grade 1, Unite 2, Module 1, Lesson 1	Open Court Reading, Grade 1, Unit 8, Lesson 1–Lesson 3	
Alabama Inspire Science, Grade 1, Unite 2, Module 1, Lesson 2	Open Court Reading, Grade 1, Unit 8, Lesson 1–Lesson 3	
Alabama Inspire Science, Grade 1, Unite 2, Module 1, Lesson 3	Open Court Reading, Grade 1, Unit 8, Lesson 2	
Alabama Inspire Science, Grade 1, Unite 2, Module 1, Lesson 4	Open Court Reading, Grade 1, Unit 8, Lesson 1–Lesson 3	



Correlations by Module

MODULE: Communication

DCI Waves and Their Applications in Technologies for Information Transfer

Wave Properties



Carry out investigations to provide evidence that the vibrations of 96–99, 108–109, 113–114 matter can make sound and sound can make matter vibrate.

Examples: striking a tuning fork, plucking a guitar string, holding a piece of paper near a sound system speaker

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 Waves and Their Applications in Technologies for Information Transfer

Wave Properties



Design and construct a device that uses light or sound waves to send a communication signal over a distance.

Examples: using a light or a sound to communicate an action or a warning

106, 113–114

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.

Next Generation Science Standards

From Molecules to Organisms: Structures and Processes

Growth and Development

Obtain information from text and other media to provide evidence 86-87, 88-89, 90 that parents and their offspring engage in patterns of behavior that help the offspring survive.

Examples: Offspring send signals such as crying or other vocalization and the parent responds by comforting, feeding, and protecting the offspring.

SEP Science and Engineering Practices

Obtaining, Evaluating, and Communicating Information

Using observations and texts to gather and communicate new information.

CCC Crosscutting Concepts

Patterns

Other Correlations Alabama Course of Study: English Language Arts Connections		
21	82, 99	
23b	82, 99	
26	82, 99	
2 9a	86	
Open Court Reading Connections		
Alabama Inspire Science, Grade 1, Unit 2, Module 2, Lesson 1	Open Court Reading, Grade 1, Unit 8, Lesson 2	
Alabama Inspire Science, Grade 1, Unit 2, Module 2, Lesson 2	Open Court Reading, Grade 1, Unit 8, Lesson 2 - 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: See Objects
2	•
3	•
4	•



Correlations by Module

MODULE: See Objects

DCI Waves and Their Applications in Technologies for Information Transfer

Wave Properties



Use evidence from observations to explain that light is necessary in order for an object to be seen.

9, 10-11, 13, 14-15, 18, 19

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.

DCI Waves and Their Applications in Technologies for Information Transfer

Wave Properties

Plan and carry out investigations to determine how light is affected when it interacts with various types of materials. Examples: transparent, translucent, opaque, reflective

24-27, 29, 30-31, 32-33, 35, 40-43, 57-58

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 Waves and Their Applications in Technologies for Information Transfer

Wave Properties



Design and construct a device that uses light or sound waves to send a communication signal over a distance.

49, 57-58

Examples: using a light or a sound to communicate an action or a warning

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		
19	29, 45	
21	27, 43	
23b	27, 43	
26	27, 43	
42a-b	20, 36	
Open Court Reading Connections		
Alabama Inspire Science, Grade 1, Unit 3, Module 1, Lesson 1	Open Court Reading, Grade 1, Unit 4: Lesson 1	
Alabama Inspire Science, Grade 1, Unit 3, Module 1, Lesson 2	Open Court Reading, Grade 1, Unit 4: Lesson 1	
Alabama Inspire Science, Grade 1, Unit 3, Module 1, Lesson 3	Open Court Reading, Grade 1, Unit 7: Lesson 1	





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: Observe the Sky
8	•
9	•



Correlations by Module

Correlations by Module		
MODULE: Observe the Sky		
DCI Earth's Place in the Universe		
Sun, Moon, and Stars		
8	Observe, describe, and predict patterns of the sun, moon, and stars as they appear in the sky.	8, 10–11, 14, 22, 23, 27, 28–30, 31, 32–33, 34–35
SEP Science and Engineering Practices		
Analyzing and Interpreting Data Collecting, recording, and sharing observations.		
CCC Crosscutting Concepts		
Patterns		

DCI Earth's Place in the Universe

Sun, Moon, and Stars

Use observations of seasonal sunrise and sunset patterns to describe the relationship between the number of hours of daylight and the time of year.

42-44, 50-51, 53, 55-58

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

Patterns

Other Correlations		
Alabama Course of Study: English Language Arts Connections		
A 12	32	
20	31, 47	
2 2	12	
3 6	38	
42a-b	19, 51	
Open Court Reading Connections		
Alabama Inspire Science, Grade 1, Unit 4, Module 1, Lesson 1	Open Court Reading, Grade 1, Unit 4, Lesson 1 - Lesson 2	
Alabama Inspire Science, Grade 1, Unit 4, Module 1, Lesson 2	Open Court Reading, Grade 1, Unit 4, Lesson 1 - Lesson 2	
Alabama Inspire Science, Grade 1, Unit 4, Module 1, Lesson 3	Open Court Reading, Grade 1, Unit 3, Lesson 1	