

**Grade 5  
Science  
Unit 6: Earth and the Atmosphere  
Louisiana Comprehensive Curriculum**

**Unit Description**

The unit will focus on activities that investigate components of the atmosphere. Also, effects of the atmosphere on Earth will be investigated.

**Student Understandings**

Knowing the components of the atmosphere helps students to begin to realize the effects that weather has on people.

**Guiding Questions**

1. Can students explain how the atmosphere and the hydrosphere differ?
2. Can students identify evidence that natural events have happened on Earth for a long period of time?
3. Can students communicate the differences in climate zones around the Earth?

**Unit 6 Grade-Level Expectations (GLEs)**

<b>Earth and Space Science</b>	
34.	Identify the components of the hydrosphere (ESS-M-A11)
35.	Identify the atmosphere as a mixture of gases, water vapor, and particulate matter (ESS-M-A11)
38.	Estimate the range of time over which natural events occur (e.g., lightning in seconds, mountain formation over millions of years) (ESS-M-B3)

**Grade 5  
Science  
Unit 7: Cycles and Climates  
Louisiana Comprehensive Curriculum**

**Unit Description**

This unit will examine many of Earth’s continuous cycles. The unit includes the study of climate zones and an introduction to the use of weather maps. Information drawn from a variety of sources is central to concept introduction, exploration, and development.

**Student Understandings**

Students will develop an understanding that different cycles operate in the environment and that cycles are continuous and repetitive. Students will be able to explain how matter can be changed from one form in a cycle or a recycling process. They should be able to summarize how the weather influences climate.

**Guiding Questions**

1. Can students describe how the processes of the water cycle interact with one another?
2. Can students identify the most important natural Earth cycles and their major processes?
3. Can students contrast the major climate zones?
4. Can students read a weather map?

**Unit 7 Grade-Level Expectations (GLEs)**

<b>Physical Science</b>	
5.	Describe the properties and behavior of water in its solid, liquid, and gaseous phases (states) (PS-M-A5)
<b>Earth and Space Science</b>	
36.	Identify, describe, and compare climate zones (e.g., polar, temperate, tropical) (ESS-M-A11)
37.	Identify typical weather map symbols and the type of weather they represent (ESS-M-A12)
38.	Estimate the range over which natural events occur (e.g., lightning in seconds, mountain formation over millions of years) (ESS-M-B3)
46.	Identify and explain the interaction of the processes of the water cycle (ESS-M-C6) (ESS-M-A10)
<b>Science and the Environment</b>	
51.	Describe naturally occurring cycles and identify where they are found (e.g., carbon, nitrogen, water, oxygen) (SE-M-A7)