

# Unit 2: Weather and Climate (LLD)

Content Area: **Science**  
Course(s):  
Time Period: **Trimester**  
Length: **Trimester 2**  
Status: **Published**

## General Overview, Course Description or Course Philosophy

Unit 2: Weather and Climate in the LLD setting takes a look at the general education curriculum and scales in down for special education students. This allows the students in the LLD classroom setting to learn in the appropriate setting while exploring local weather, weather patterns, climate, clouds, the sun's illumination on Earth, climate zones, and greenhouse warming.

## OBJECTIVES, ESSENTIAL QUESTIONS, ENDURING UNDERSTANDINGS

### Objectives and Enduring Understandings:

- Students organize and use data to describe typical weather conditions expected during a particular season. By applying their understanding of weather-related hazards, students are able to make a claim about the merit of a design solution that reduces the impacts of such hazards.

### Essential Questions:

- How is the weather where you live and how much did it rain in this season?
- What Are the Climates of the World?
- How can we prepare for floods and other weather related hazards?

## CONTENT AREA STANDARDS

3-ESS2-1	Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season.
3-ESS3-1	Make a claim about the merit of a design solution that reduces the impacts of a weather-related hazard.
3-ESS2-2	Obtain and combine information to describe climates in different regions of the world.

## RELATED STANDARDS (Technology, 21st Century Life & Careers, ELA Companion Standards are Required)

LA.RI.3.1	Ask and answer questions, and make relevant connections to demonstrate understanding of a text, referring explicitly to the text as the basis for the answers.
LA.RI.3.9	Compare, contrast and reflect on (e.g., practical knowledge, historical/cultural context, and background knowledge) the most important points and key details presented in two

	texts on the same topic.
MA.3.MD.A.2	Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l). Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units, e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem.
LA.W.3.1	Write opinion pieces on topics or texts, supporting a point of view with reasons.
MA.3.MD.B.3	Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step “how many more” and “how many less” problems using information presented in scaled bar graphs.
LA.W.3.7	Conduct short research projects that build knowledge about a topic.
LA.W.3.8	Recall information from experiences or gather information from print and digital sources; take brief notes on sources and sort evidence into provided categories.
TECH.9.4.12.CT.1	Identify problem-solving strategies used in the development of an innovative product or practice (e.g., 1.1.12acc.C1b, 2.2.12.PF.3).
TECH.9.4.12.CT.2	Explain the potential benefits of collaborating to enhance critical thinking and problem solving (e.g., 1.3E.12profCR3.a).

## **EVIDENCE OF LEARNING**

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### **Formative Assessments**

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- Chart data collected
- Teacher/student discussions
- Student analysis
- Student discussions
- Student reflection
- Student observations
- Partner questions
- Partner/group discussions
- discussion questions
- Lab activities
- Science notebook entries
- Vocabulary questions

### **Summative Assessments**

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#### Benchmark Assessments

- Multiple Choice Assessment administered at the end of each trimester (T1, T2, T3)

## Alternative Assessments

- Oral Presentations
- Questions for Comprehension
- Performance Tasks
- Scientific Journals/Notebooks
- Self-Assessment
- WebQuests

## **RESOURCES (Instructional, Supplemental, Intervention Materials)**

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- Teacher Edition
- Student Lab Manual
- Student Notebooks
- Weather photographs
- Class chart of Key Terms
- Videos

## **INTERDISCIPLINARY CONNECTIONS**

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- Integrate quantitative or technical information expressed in words in a text. Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.
- Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.
- Social Emotional Learning
- Sustainability

## **ACCOMMODATIONS & MODIFICATIONS FOR SUBGROUPS**

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See link to Accommodations & Modifications document in course folder.

\*In addition to IEP Accommodations & Modifications:

- Restate and review directions
- Student restates directions or information
- Oral responses
- Small group/ one to one

- Additional time
- Concrete examples
- Extra visuals
- Support auditory information with visuals
- Space for movement or breaks
- Extra verbal cues and prompts