

Wright City Science Curriculum

3rd Grade Science

Grade	3rd Grade
Unit of Study	Weather and Climate
Length of Unit	12 days; 30 min per day
Sample Essential Questions	Sample Corresponding Big Ideas
How does the weather change based on patterns in that area?	Scientists recorded patterns of the weather across different times and areas so they can make predictions about what kind of weather might happen next.
What is climate and how does it vary over years?	Climate describes a range of an area's typical weather conditions and the extent to which those conditions vary over years.
How can humans reduce the impacts of natural hazards?	A variety of natural hazards result from natural processes. Humans cannot eliminate natural hazards, but can take steps to reduce their impacts.

Missouri Learning Standards	
Priority Standards	Supporting Standards
3.ESS1.D.1: Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season.	3.R.1.A.b: Develop and demonstrate reading skills in response to text by drawing conclusions and support with textual evidence. 3.R.1.C.a: Explain relevant connections between text to text (ideas and information in various fiction and nonfiction words, using compare and contrast) 3.R.2.A.e: Read, infer, and draw conclusions to compare and contrast key elements in various types of fiction. 3.R.3.C.e: Read, infer, and draw conclusions to compare and contrast the most important points and key details presented in texts on the same topic. 3.W.3.A: Gather, analyze, evaluate, and use information from a variety of sources to apply the research process.

3.ESS2.D.2: Obtain and combine information to describe climates in different regions of the world.	3.DS.A.1: Create frequency tables, scaled picture graphs, and bar graphs to represent a data set with several categories. 3.DS.A.2: Solve one and two step problems using information presented in bar and/or picture graphs
3.ESS3.B.1: Make a claim about the merit of an existing design solution (e.g. levies, tornado shelters, sea walls, etc.) that reduces the impacts of a weather-related hazard.	3.W.2.A: Compose well-developed writing texts for audience and purpose to write opinion texts. 3.W.3.A: Gather, analyze, evaluate, and use information from a variety of sources to apply the research process.

Unit 3 Sequence			
MLS	Topic(s)	Learning Targets	Academic Vocabulary
3.ESS1.D.1	Weather Patterns in Graphs	I can recognize and describe patterns of weather conditions across different areas.	patterns; conditions
		I can describe and represent data on typical weather conditions expected during a particular season.	represent; data; weather
		I can use my knowledge of weather and climate to answer questions about data represented in data tables, bar, picture graphs, and line plots.	climate; bar graphs, picture graphs, line plots; knowledge
3.ESS2.D.2	Climates in Different Regions	I can describe climates in different regions of the world.	regions
3.ESS3.B.1	Design Solutions in Hazards	I can describe different types of hazardous weather that results from natural processes. I can design solutions to reduce impact from natural hazardous weather.	hazardous; weather; natural processes; impact

MLS	Learning Activities	
3.ESS1.D.1	Weather Conditions (cut and paste p.6-7); print line plots and thermometers from slides: (pg. 14) passage; p.5 and 15	Must Do ▾
	Climate passage for students (pg. 8-9)	Must Do ▾
	Videos: Generation Genius Weather vs. Climate Video	Can Do ▾
	Weather book	Option L... ▾
	Graphing Practice: - Average high and low Temperature St. Louis Graphing	Option L... ▾

	- Comparison Average High and Low Temperatures in St. Louis and Los Angeles Graphing - Comparison Average Monthly Rainfall for St. Louis, Missouri and Tokyo, Japan Picture Graphing - Comparison Rainfall St. Louis and Tokyo Whole Numbers Only	
3.ESS2.D.2	Print Climate Reading and Sheet ; Climate Sort Cards Weather and Climate Jeopardy Review Game	Option L... ▾
3.ESS3.B.1	Print pg. 17-18 for passage for students	Must Do ▾
	Hazardous Weather Data and Tables	Must Do ▾
	Videos: Generation Genius Natural Disasters Video ; Generation Genius Extreme Weather Solutions Video	Can Do ▾
	Storms book	Option L... ▾
	STEM Challenges: Tornado STEM Challenge ; Hurricane STEM Challenge	Option L... ▾

Assessments		
MLS	Description or Location	Rubric/Location
	Temperature Line Plot	Shared Drive
	Weather and Climate Venn Diagram Comparison (pg. 22)	Shared Drive
	Precipitation Graphs on Edulastic	Pear Assessment
	Weather and Climate Formative on Edulastic	Pear Assessment

Additional Resources	
•	Weather and Climate Slides
•	Weather and Climate Lesson Plans