

Wright City Science Curriculum
(Kindergarten)

Grade	Kindergarten
Unit of Study	Weather And The Sun
Length of Unit	12 Days
Sample Essential Questions	Sample Corresponding Big Ideas
Why do some places feel hotter than others?	It feels hotter in the sun than in the shade.
What happens to different items in the sun?	Some items melt in the sun.
How can we solve the problem of being too hot while outside?	We can make a structure with shade to block the sun when we are too hot.
What do we notice about the sun in the Winter compared to the Summer?	The sun is out longer in the Summer than it is in the Winter.
How can we keep track of the weather?	We can keep track of the weather with a graph.

Missouri Learning Standards	
Priority Standards	Supporting Standards
K.PS3.B.1: With prompting and support, use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area.	
K.PS3.A.1: Make observations to determine the effect of sunlight on Earth's surface.	

K.ESS1.B.1: Make observations during different seasons to relate the amount of daylight to the time of year.	
K.ESS2.D.1: Use and share observations of local weather conditions to describe patterns over time.	
K.ETS1.A.1: Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.	

Unit Sequence			
MLS	Topic(s)	Learning Targets	Academic Vocabulary
K.ESS1.B.1	Earth	I can observe if we have more daylight in the Summer than in the Winter.	Observe, daylight, Summer, Winter
K.ESS2.D.1	Weather	I can make a graph of the weather I observe.	Graph, observe, weather
K.PS3.A.1	Energy	I can observe the effect of sunlight on Earth's surface	Observe, sunlight, Earth's surface
K.PS3.B.1	Energy	I can create a structure that will make an area cooler from the sun.	Create, structure, cooler, sun
K.ETS1.A.1	Engeneering	I can ask questions, make, observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.	Ask, observe, gather, define a problem, develop a solution

MLS	Learning Activities	
K.ESS1.B.1	Day 1: Seasons (Spring) - Slides/read aloud - Anchor chart (clothing, weather, activities) - Flip book	Must... ▾
K.ESS1.B.1	Day 2: Seasons (Summer) - Slides/read aloud - Anchor chart (clothing, weather, activities) - Flip book	Must... ▾
K.ESS1.B.1	Day 3: Seasons (Fall) - Slides/read aloud - Anchor chart (clothing, weather, activities) - Flip book	Must... ▾
K.ESS1.B.1	Day 4: Seasons (Winter) - Slides/read aloud - Anchor chart (clothing, weather, activities) - Flip book	Must... ▾
K.PS3.A.1	Day 5: Daylight	Must... ▾
K.PS3.A.1	Day 6: What does the Sun do?	Must... ▾
K.PS3.A.1	Day 7: Sunlight Changes Things	Must... ▾
K.PS3.A.1	Day 8: Shadows and Shade	Must... ▾
K.ETS1.A.1	Day 9: Present a Problem	Must... ▾
K.PS3.B.1	Day 10: Brainstorm and Plan	Must... ▾
K.PS3.B.1	Day 11: Build	Must... ▾
K.ETS1.A.1	Day 12: Test	Must... ▾
K.ESS2.D.1	Ongoing: Weather observation and graphing	Must... ▾

Assessments		
MLS	Description or Location	Rubric/Location

Additional Resources	
KinderScience Unit 2	
KinderScience Unit 3	
KinderMath Unit 14	
Lessons 5-12 Slides	