Kindergarten Mystery Science Strand K.1 Weather Patterns Lesson Alignment and Support Salt Lake City School District 2021-2022

Mystery Science Lesson Rationale:

Mystery Science Lessons seek to promote engagement and inspire excellence in students' mastery of science and engineering. The lessons support our vision and mission of equity and access in elementary science. The sequence of Mystery Science Lessons below support kindergarten students' sense-making with respect to weather using three-dimensional instruction. The sequenced Mystery Science Lessons support kindergarten teachers in implementing the new Utah SEEd Standards about Weather specifically in the District Pacing Guide. Lessons include a video focused on a weather-based phenomenon, a handson activity, and an assessment. The lessons are designed to take students approximately 60 minutes to complete. Most lessons use minimal materials, such as paper printouts and pencils. Additionally, most paper printouts can be downloaded individually from the Mystery Science Lessons websites in the form of an editable document that can be assigned through Canvas. Some lessons suggest markers, group work, or demonstrations. Teachers can make easy modifications to these lessons based on students' and teachers' resources.

Note: Use a Science Notebook or print the Mystery Science PDF Booklet for students to complete the lesson series below! You can also print individual lesson materials by following the links in the Materials per Student and Assessments.

Strand k.1 Weather Patterns

Weather is the combination of sunlight, wind, snow or rain, and temperature in a particular region at a particular time. People measure these conditions to describe and record the weather to identify patterns over time. Weather scientists forecast severe weather so that communities can prepare for and respond to these events. Sunlight warms Earth's surface.

Standard K.1.1 Weather Patterns

Obtain, evaluate, and communicate information about local, observable weather conditions to describe patterns over time. Emphasize the students' collection and sharing of data. Examples of data could include sunny, cloudy, windy, rainy, cold, or warm. (ESS2.D)

Standard K.1.2 Human Response to Weather

Obtain, evaluate, and communicate information on the effect of forecasted weather patterns on human behavior. Examples could include how humans respond to local forecasts of typical and severe weather such as extreme heat, high winds, flash floods, thunderstorms, or snowstorms. (ESS3.B)

Standard K.1.3 Investigate Weather

Carry out an investigation using the five senses, to determine the effect of sunlight on different surfaces and materials. Examples could include measuring temperature, through touch or other methods, on natural and man-made materials in various locations throughout the day. (PS3.B)

Standard K.1.4 Design a Solution to Reduce Warming

Design a solution that will reduce the warming effect of sunlight on an area. Define the problem by asking questions and gathering information, convey designs through sketches, drawings, or physical models, and compare and test designs. (PS3.B, ETS1.A, ETS1.B, ETS1.C)

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Mystery	Suggested Date and	Materials and Assessments	Remote Learning
Science Lesson	SEEd Alignment		Modifications
Mystery	September 7	Materials per Student:	Ready to Teach
Science	1	Weather Drawing worksheet	Teaching in the
Unit:	SEEd Standard k.1.1	Clipboard	classroom
Weather	SEEU Stalluaru K.1.1	Crayons	• Have students do the
	Disciplinary Core Ideas: ESS2.D (Weather and	Literature Connection:	activity solo.

Lesson 1: Have you ever watched a storm?

In this Mystery, students start to notice changes in the weather. In the activity, be a Weather Watcher, they learn the different factors involved in the weather, then observe and draw the weather around them.

Climate) Science and

Science and Engineering **Practice:** Obtaining, Evaluating, and Communicating Information

Crosscutting Concept: Patterns

Epic Books

The Snowy Day Read Aloud Video Changing Weather Weather: The Weather's always

changing Storms

ReadWorks.org Weather Text Set Unite for Literacy

BigStorms

Assessment:

Mystery 1 Assessment

 No supply adjustments.

Teaching Online

- Have students do the activity at home.
- Send each student home with a copy of the Weather Drawing printout (or assign the digital version).

Mini Lesson:

Why are tornadoes so hard to predict?

September 13

SEEd Standard k.1.1

Disciplinary Core Ideas:

ESS2.D (Weather and Climate) Science and

Science and Engineering Practice: Obtaining,

Evaluating, and Communicating Information

Crosscutting Concept: Patterns

Materials per Student:

Science notebook or blank paper

Activity:

Most people try to get away from tornadoes. But the scientists known as storm chasers rush into storms to study them. Their cars keep them safe while they are there. If you were a storm chaser, what would you add to your car to make it safe in a tornado? How would you keep it from blowing away? How would you stop things from breaking the windows? Draw and label your special car.

Literature Connection:

Epic Books Weather: Tornados and Hurricanes Wild Weather ReadWorks.org Severe Storms Text Set

Assessment Questions:

- 1. Why are tornadoes so hard to predict?
- 2. What did this lesson make you curious about? What other questions do vou have about tornadoes?

Ready to Teach Teaching Online

• Send home supplies for students to complete the activity.

Lesson 2:	September 20	Materials per Student:	Ready to Teach
How can		Weather Window worksheet	Teaching in the
you get	CEEd Standard V 1 2		classroom
ready for a	SEEd Standard K.1.2	Literature Connection:	 Have students do
big storm		Epic Books	the activity solo.
oig storm	Disciplinary Core Ideas:	Weather: Tornados and Hurricanes	 No supply
	ESS2.D (Weather and Climate)	Wild Weather	adjustments.
		ReadWorks.org	Teaching Online
	Science and Engineering	Severe Storms Text Set	 Have students do the
	Practice: Obtaining,	Severe Storms Text Set	activity at home.
	Evaluating, and	Assessment:	 Send each student
	Communicating	Mystery 2 Assessment	home with a copy of
	Information	ivrystery 2 Assessment	the Weather Window
			printout (or assign the
	Crosscutting Concept:		digital version).
	Patterns		
Mini	G 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Matariala non Students	Danda Tarah
	September 27	Materials per Student: Science notebook or blank paper	Ready to Teach
Lesson:		Science notebook of brank paper	Teaching Online◆ Send home supplies
What makes	SEEd Standard k.1.2	Activity	for students to
<u>hurricanes</u>		Activity:	
<u>SO</u>	Disciplinary Core Ideas:	If you lived in an area with	complete the activity.
dangerous?	ESS2.D (Weather and	hurricanes, what could you do to	
	Climate) Science and	protect your home? How could you	
	Cimilate) Science and	make sure the windows don't	
	Science and Engineering	break? How could you prevent the	
	Practice: Obtaining,	roof from flying off? How could	
	Evaluating, and	you make sure it doesn't flood?	
	Communicating	Make a drawing of your home and	
	Information	all the things you could add to	
		protect it from a hurricane.	
	Crosscutting Concept:		
	Patterns	Extension:	
		Mini Lesson: What's Worse a	
		Hurricane or a tornado?	
		Literature Connection:	
		Epic Books	
		<u>Hurricanes!</u>	
		Spinning Wind and Water Hurricanes	
		<u>Hurricanes</u>	
		Natural Disasters Hurricanes	
		<u>Hurricanes</u>	
		<u>Hurricanes</u>	
		ReadWorks.org	
		Walt's class watches the weather	
		Assessment Questions:	
		Assessment Questions: 1. Describe what makes hurricanes	
		so dangerous.	
		2. What did this lesson make you	
		curious about? What other questions	
		do you have about hurricanes?	
L			

Lesson 3:
What will
the weather
be like on
<u>your</u>
birthday?
In this lesson,

students use observations of the four classic seasons to spot patterns and thereby determine the seasons' order. In the activity. Circle of Seasons. students make observations of the four classic seasons of the temperate zone: snowy winter, warm spring, hot summer, and cool autumn with colorful leaves. Students spot patterns and determine the order of the seasons.

October 4

SEEd Standard k.1.1

Disciplinary Core Ideas:

ESS2.D (Weather and Climate) Science and

Science and Engineering Practice: Obtaining, Evaluating, and Communicating Information

Crosscutting Concept:

Patterns

Materials per Student:

Circle of Seasons (Northern Hemisphere) printout
Alternatively, you can print our Southern Hemisphere version.
Seasons Sorting Cards printout
Scissors

Literature Connection:

Epic Books
What I see in Spring
What I see in Winter
What I see in Fall
What I see in Summer
Winter
Spring

Fall
I know the Seasons
ReadWorks.org
Seasons Paired Text
The four seasons

Summer

Unite for Literacy

<u>Here comes Winter</u>

Here comes Autumn

Assessment:

Mystery 3 Assessment

Adjust Supplies Teaching in the classroom

- Have students do the activity solo.
- Print out 2x as many Seasons Sorting Cards so that each student has a copy.

Teaching Online

- Have students do the activity at home.
- Send each student home with a copy of the Seasons Sorting Cards (the digital version will not work).

Mini:

Lesson:

Why do leaves change color in the Fall?

In this minilesson, students discover how and why some tree leaves change color when the weather starts to get colder. In the activity, Falling for Leaves, students make

October 11

SEEd Standard k.1.1

Disciplinary Core Ideas:

ESS2.D (Weather and Climate) Science and

Science and Engineering
Practice: Obtaining,
Evaluating, and
Communicating
Information

Crosscutting Concept:

Patterns

Materials per Student:

Leaf Shapes (Grades K-2) printout Leaf Thanks Card (Grades K-2) printout

Crayons
Glue Stick
Leaf
Rulers
Scissors
Scrap paper

Literature Connection:

Epic Books

What happens in Fall: Leaves in Fall
What happens in Fall: weather in Fall
Maple Trees
Summer Green to Autumn Gold:
Uncovering Leaves
ReadWorks.org

Demo Activity
Teaching Online

• Send home supplies for students to complete the activity.

tree leaves, then take a closer look to observe the characteristics of leaves in their own neighborhood. Lesson 4: How do you know what to weart for the weather? In this Read-Along lesson, Kevin becomes a weather detective to figure out why he keeps lossing his warm clothes. The lessons includes a short exercise where students observe the weather and compare it to what they remember from earlier in the day. You can extend the lesson with the optional activity, Wind and Weather, in which students use poetry and observation to start noticing which way the wind is blowing, an important factor in how weather changes over time.				
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Mini Lesson: Why does it get cold in the Winter?	October 25 SEEd Standard k.1.2 Disciplinary Core Ideas: ESS2.D (Weather and Climate) Science and Science and Engineering Practice: Obtaining, Evaluating, and Communicating Information Crosscutting Concept: Patterns	Materials per Student: No materials required Activity: You can safely study how the Sun moves by watching shadows. On a sunny day, find an object in your home that is in full sunlight. Look to see if it's making a shadow. Then, use two stickers to mark the edges of the shadow. Wait an hour. Look again. Where is the shadow now? Where are the stickers? If you have time, check the shadow every hour to see what happens! Literature Connection: Epic Books 100 Snowflakes: A Winter Counting book Winter's coming ReadWorks.org Sunlight in Winter Unite for Literacy It's Winter Assessment Questions: 1. Why does it get cold in winter? 2. What did this lesson make you curious about? What other questions do you have about the winter?	
Mini Lesson: What's the Coldest Place on Earth?	November 1 SEEd Standard k.1.2 Disciplinary Core Ideas: ESS2.D (Weather and Climate) Science and Science and Engineering Practice: Obtaining, Evaluating, and Communicating Information Crosscutting Concept: Patterns	Materials per Student: No materials required Activity: Can you find the coldest place in your home? Start by visiting each room in your home. Sit in each room for at least two minutes. Which room feels coldest? Once you decide which room is the coldest, find the coldest spot in that room. If you have a thermometer, you can use it to help you measure the temperature! Do you have any ideas about why that room feels coldest? Extension: Mini Lesson: Where do bugs go in the Winter?	Ready to Teach Teaching Online No supplies required

Lesson 5:	November 8	Literature Connection: Epic Books Snow Day! The many kinds of cold Hot or cold What feels cold? Unite for Literacy A Blanket of Snow Assessment Questions: 1. What is the coldest place on Earth? 2. What did this lesson make you curious about? What other questions do you have? Materials per Student:	Adjust Supplies
How could you warm up a frozen playground? In this lesson, students think about their experiences with hot and cold weather and learn about a real city where the sun never shines in winter. In the activity, Chill City, students experiment with different types of materials (opaque, transparent, and reflective) to figure out how to reflect light. They use this to bring light and warmth to an imaginary paper town.	SEEd Standard k.1.3 Disciplinary Core Ideas: ESS2.D (Weather and Climate) Science and Science and Engineering Practice: Planning and carrying out an investigation Crosscutting Concept: Patterns	Chill City printout Draw Chill City worksheet Rulers Aluminum foil Black construction paper Clear plastic report covers Colored construction paper Dot stickers Envelopes Index cards (3 x 5) Literature Connection: Epic Books Temperature First Science What does Sunlight do? Keeping cool in Summer ReadWorks.org Cloudy and Sunny Assessment: Mystery 5 Assessment	Teaching in the classroom Have students do the activity solo. You will need 2x as many supplies as the supply list indicates. Teaching Online Send each student home with an envelope containing: 1 piece of aluminum foil, 1 sheet of construction paper, 1 plastic report cover, 1 index card and 2 dot stickers. Each student will a also need a copy of the Chill City and Draw Chill City printouts.
Lesson 6: How could you walk barefoot	November 15 SEEd Standard k.1.4	Materials per Student: Literature Connection: Epic Books	Ready to Teach Teaching in the classroom • Have students do
across hot		ReadWorks.org	the activity solo.

pavement	Disciplinary Core Ideas:	Keeping cool	 No supply
without	ESS2.D (Weather and	Unite for Literacy	adjustments.
burning	Climate) Science and		Teaching Online
your feet?	Cimate) Science and	Assessment:	 Have students do the
your reet?	Science and Engineering	Mystery 6 Assessment	activity at home.
	Practice: Obtaining,	Wystery o Assessment	• Instead of sending
In this Read-			each student home
Along lesson,	Evaluating, and Communicating		with a copy of the Find
Keya needs to	Information		a Cool Path for Keya
find a way to	illioillation		printout, have students
get from the swimming			think about and
pool to the ice	Crosscutting Concept:		
cream truck	Patterns		discuss aloud how they
without			would get to the ice
burning her			cream truck.
bare feet on			
the hot			
pavement.			
This lesson			
includes a			
short exercise			
where students			
practice			
mapping a			
cool path			
across the hot			
pavement, and then act it out.			
You can			
extend the			
lesson with the			
optional			
activity,			
Where Is It			
Hot? Where Is			
It Not? where			
students			
examine a			
photo and look			
for sunny hot			
spots and			
shady cool			
spots.	1		