


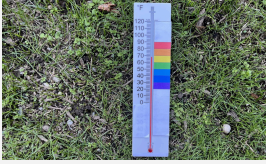
# STORYLINE

## UNIT K.2: HOW CAN WE BE PREPARED FOR THE WEATHER?


### Lesson Set One • Lessons 1-10

Lesson	Phenomenon	What we do	What we figure out
<b>Lesson 1</b> Anchoring Phenomenon <i>What is it like outside today and how did we prepare for it?</i>	 <p>There are different weather conditions that we can notice and ask questions about.</p>	<p>Make observations of how it looks and feels outside.</p> <p>Share our observations and ask questions on our Notice and Wonder chart.</p> <p>Consider how we got ready to go outside so we could be comfortable.</p> <p>Read an infographic of question words.</p>	<p>We can observe different types of weather conditions when we go outside.</p>


↓ Navigation to next lesson: *We have lots of ideas and questions about weather conditions, including noticings and wonderings about how hot we feel outside.*

<b>Lesson 2</b> Investigation <i>How can we find out and prepare for how warm it is outside?</i>	 <p>Temperature can be different inside and outside; it can be measured with a thermometer.</p>	<p>Revisit our questions and think about how we know how warm something is.</p> <p>Read a book about how meteorologists measure temperature.</p> <p>Use thermometers to investigate temperature inside and outside.</p> <p>Identify and use patterns in our data to compare inside and outside temperatures and use these to prepare to go outside.</p>	<p>Temperature describes how warm it is inside or outside.</p> <p>We can use thermometers to measure the temperature.</p> <p>Comparing the inside and outside temperatures helps us know how to get ready to go outside.</p>
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↓ Navigation to next lesson: *Now that we have figured out how to measure and use temperature to prepare for going outside, we will consider other weather conditions, like how sunny it is. So, we want to observe the sky next.*

<p><b>Lesson 3</b></p> <p>Investigation</p> <p><i>How can we find out and prepare for how sunny it is outside?</i></p>	 <p>Preparations for the weather can change depending on how sunny it is.</p>	<p>Make and share observations about how cloudy or sunny it is.</p> <p>Identify and record patterns in our observations.</p> <p>Read a book about different types of weather conditions.</p> <p>Discuss ways to prepare to go outside when it is sunny.</p>	<p>The weather can be sunny, cloudy, or a mix of both (partly cloudy).</p> <p>We can observe the weather in different ways (temperature, sky descriptions).</p> <p>When it's sunny, we prepare for going outside differently (wear a hat; plan to play in the shade).</p>
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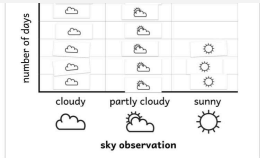
↓ Navigation to next lesson: *Now that we have figured out how to observe and prepare for sunny weather conditions, we are wondering about other types of weather conditions, like rain or snow.*

<p><b>Lesson 4</b></p> <p>Investigation</p> <p><i>How can we find out and prepare for how rainy it is outside?</i></p>	 <p>We can measure the rain that our location gets using a rain gauge.</p>	<p>Build a rain gauge and use it to make observations about how rainy it is.</p> <p>Observe temperature and cloudiness, then identify and record patterns in our observations.</p> <p>Discuss ways to prepare for going outside when it is rainy (and/or snowy).</p>	<p>Rain (and/or snow) is another weather condition we can observe and record.</p> <p>A rain gauge is a tool we can use to measure how much rain there is.</p> <p>Different rain/snow conditions can cause us to prepare differently for going outside (wear a coat or boots; play underneath a roof).</p>
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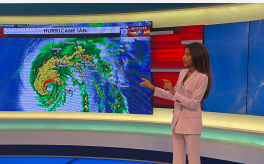
↓ Navigation to next lesson: *Now that we have figured out how to observe, measure, and prepare for rain (and/or snow), we want to answer our questions about when it is windy outside.*

<p><b>Lesson 5</b></p> <p>Investigation</p> <p><i>How can we find out and prepare for how windy it is outside?</i></p>	 <p>Wind is moving air; it can be measured with a wind gauge.</p>	<p>Read an infographic to figure out how meteorologists measure how fast the air is moving.</p> <p>Build and use wind gauges to measure wind.</p> <p>Observe other weather conditions, then identify and record patterns in our observations.</p> <p>Discuss how we can prepare to go outside in different windy conditions.</p>	<p>How fast the wind is moving is a weather condition we can measure and record.</p> <p>A wind gauge is a tool we can use to measure how fast the air is moving.</p> <p>Some windy conditions can cause us to prepare to go outside differently.</p>
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↓ Navigation to next lesson: *Now that we figured out how to observe and record temperature, cloudiness, rain/snow, and wind, we are wondering how we can use patterns in our class Weather Calendar to help us describe what our weather is usually like.*

<p><b>Lesson 6</b></p> <p>Putting Pieces Together</p> <p><i>How can we use patterns to know what the weather is usually like?</i></p>	 <p>We can see patterns in our local weather over time.</p>	<p>Use our Weather Calendar to ask questions about what the weather is usually like.</p> <p>Make picture graphs for each type of weather we observe.</p> <p>Answer our previously asked questions by identifying patterns in picture graphs.</p> <p>Construct a definition of weather.</p> <p>Read a book about how students prepare for weather in other communities.</p>	<p>Weather is the combination of temperature, cloud cover, rain or snow, and wind where we live at a certain time.</p> <p>Picture graphs help us identify patterns, describing what our weather is usually like.</p>
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↓ Navigation to next lesson: *Now that we figured out patterns in our local weather conditions, we are wondering how people know about future weather.*

<p><b>Lesson 7</b></p> <p>Investigation</p> <p><i>How can we find out about weather in the future?</i></p>	 <p>Meteorologists make weather forecasts using patterns.</p>	<p>Draw and write to share what we figured out about our usual weather and how to prepare for it.</p> <p>Use a book to obtain information about how meteorologists make and communicate weather forecasts.</p> <p>Begin planning Community Service Announcements to communicate about our weather and how to prepare for it.</p>	<p>Meteorologists make weather forecasts using patterns in weather observations and they communicate weather forecasts to other people.</p> <p>Weather forecasts tell us what the weather might be like in the future so we can prepare.</p>
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↓ Navigation to next lesson: *Now that we know meteorologists forecast and communicate about weather, we are wondering about the severe weather that they sometimes predict.*

<p><b>Lesson 8</b></p> <p>Investigation</p> <p><i>What makes the weather severe?</i></p>	 <p>Severe weather is extreme and unsafe.</p>	<p>Ask questions about weather conditions that are different from our usual weather.</p> <p>Read a book to figure out about types of severe (unsafe) weather that could happen in our area.</p> <p>Draw and write about local severe weather to add to our Community Service Announcement.</p>	<p>Sometimes the weather is very different from our usual weather patterns.</p> <p>Severe weather events can be unsafe, but we can prepare for them.</p>
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↓ Navigation to next lesson: *Now that we know about different types of local severe weather, we are wondering about different ways we can be prepared and stay safe.*

<p><b>Lesson 9</b></p> <p>Investigation</p> <p><i>How can we prepare for severe weather?</i></p>	 <p>We can prepare for and respond to severe weather events safely.</p>	<p>Use a card sort to organize ideas and notice patterns in how we prepare for severe weather.</p> <p>Draw and write our ideas for staying safe during severe weather.</p> <p>Prepare our CSA's, so we are ready to communicate how we can prepare for the weather (including severe weather).</p>	<p>People prepare for local severe weather in specific ways, depending on the weather event.</p>
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↓ Navigation to next lesson: *Now that we have put together our Community Service Announcements, we want to share what we have figured out about preparing for the weather with invited guests.*

<p><b>Lesson 10</b></p> <p>Putting Pieces Together</p> <p><i>How can we communicate about preparing for the weather?</i></p>	 <p>Weather-related information can be communicated through drawing, writing, speaking, and gesturing.</p>	<p>Review our book about how meteorologists communicate about the weather.</p> <p>Co-create a CSA Communication Checklist, and use it when sharing our Community Service Announcements to invited guests.</p>	<p>Communicating with others about how to prepare for the weather can help people stay safe and comfortable.</p>
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