bestprep
Inspire. Educate. Connect.

Technology Integration Workshop
2020

Unit Title: Weather

Grade Level: 2nd Grade

Subject Area: Science

Duration/Length/Number of class periods:

Description:
During this unit students will learn more about weather by asking the question what is weather? Through inquiry and discussion students will develop a definition of weather. They will learn about tools by working through a blind sort and making predictions. Students will then experiment with weather tools and learn how to record weather data. Next, students will use weather tools, and create their own way to record data for a given amount of time. After they have collected their data, students will describe the weather by creating their own weather report.

Established Goals (National, State, Local):

2E.2.1.1.1 Represent data to describe typical weather conditions expected during a particular season.

What Enduring Understandings are desired?

Measure, record and describe weather conditions using common tools.

What Essential Questions will be considered?
What are the four factors of weather?
What tools are used to measure weather conditions?
How can we record weather conditions?
How can we describe weather conditions?

Students will know / be able to:
Define weather (four factors)
Measure weather conditions using common tools.
Record weather conditions measured with common tools: write down weather conditions after using common tools.
Describe weather conditions and common tools.

Description	Formative	Summative	Introductory Activity	Learning Activity	Student Technology Used	Teacher Technology Used	ISTE Standards
Day 1: What is Weather? Students will complete an investigation to build a *definition of weather.* Students will participate in making a list of what they think weather is by using SmartLearning Suite-student link, teacher link. Then students will use Seesaw to group images together. (Images of different weather that will relate to the 4 factors that describe weather) What do you notice? What is the same? What is different? Have students share how they grouped items. Revisit the list we created on Learning Suite and look for similarities. Together create a definition of weather. Post it in the room.			X		Smart Learning Suite& SeeSaw		
Day 2: Have you ever watched a storm? Review definition of weather from previous lesson. Students will view a Mystery Science lesson that will reinforce the four factors of weather. As a class, we will complete the hands on activity outside.				X	Smart board		
Day 3: Have you ever watched a storm? part 2 Students will be observing the *factors* outside on their own. They are going to *record* their observations on paper which will have the same format from day 2. After observations are made, students will upload a picture of their work to seesaw and record themselves *describing* the weather. chance to share their observations. As they are sharing, listen for them to *describe* the four factors of weather.	X				SeeSaw		
Day 4: Weather Tools Students are now familiar with what weather is, now they will investigate tools used to *measure* weather using SmartLearning Suite. (Student Link Teacher Link) Have them think about the 4 factors of weather. They will see images of tools and think about what they could be used for. What do they notice about each tool? After they have had time to make notices and wonder, write the 4 factors on the board and have them match one factor to each tool. Give students an opportunity to share ideas/thinking.			X		Smart Learning Suite		
Day 5: Using Weather Tools Students will have an opportunity to explore and use weather tools in groups.				X			
Day 6: What are weather tools? Students will demonstrate their understanding of weather tools by using chatterpix to tell about weather tools and how they can be used.	X				Chatterpix		
Day 7 Recording the weather Students will decide on how they want to record their weather observations. We will ask: *What do we want to measure?* Once we have determined what we are measuring, will discuss a few different layouts or tools they can use to do so. Students will be asked to take a picture of at least 2 data points				x	SeeSaw/Dedmos		

they have gathered. During this time check in with students about the data they are recording. Since they won't need as much time to measure and record, incorporate other activities that pertain to weather.							
Day 8: Weather report Students will use Flipgrid to demonstrate their understanding of the enduring understanding. They will create their own weather video. The rubric will be there to guide students to ensure they included all points. Rubric		X			Flipgrid		

Materials, tools and resources: iPads or Chromebooks for students, weather tools (windvane, thermometer, rain gauge), access to SeeSaw, Desmos, Smart LearningSuite, Flipgrid, Chatterpix, Recording forms, Writing tools.
Unit Plan Author (name, school and optional email address or hyperlink to teacher's web page): Natasha Fierst - Lincoln Elementary
Additional credit given to: Mystery Science