

Lesson Description: Lesson 2 Forecasting the Weather Webquest

This lesson is part of the Weather PBL and will look at how meteorologists forecast the weather and give students a first look at some of the technological terms we will be using. It will also allow students to explore air masses, fronts, weather stations and weather forecasts.

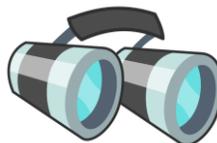
Outcomes



Resources



Procedure



Assessments



Grade: 5
Subject: Science
Unit: Predicting the Weather

Driving Questions: *What is some of the terminology of the meteorologist?*



Curriculum Outcomes:

Science:

104-7, 204-8, 205-4, 205-10, 205-7, 300-13 using correct names of weather instruments, construct and use instruments to record temperature, wind speed, wind direction, and precipitation

07-14, 205-8, 302-11 using a variety of sources, gather information to describe the key features of weather systems and identify weather-related technological innovations and products that have been developed by cultures in response to weather conditions

Expected Time: 70 minutes



Resources:

- Webquest: "[Weather Webquest](#)" (Attached to this hyperlink; compliments of Discovery Education Learning)
- iPad Tablets or laptop computers



Lesson Procedure

21st century skills

Teacher does (I Do):

Terminology Introduction and Review

Lesson 2: Set-up and Instructions (10 Minutes)

Explain to the students that we will be working on a webquest today. They should use either their tablets or a laptop computer. Show the students on the SMART Board how to access the webquest and go over the directions so they know what is to be expected.

Students can submit their completed document via the class Moodle, just print it or through Showbie.

remember, understand

You do (Student Does):

Terminology Introduction and Review

Lesson 2: Terminology Review (45 Minutes)

How do meteorologists forecast the weather? This web quest will allow students to explore air masses, fronts, weather stations and weather forecasts. They can work in groups of two or three students but no more. Students will follow the links for each question and write down their responses on the [Forecasting the Weather Webquest](#). This sheet is also available as a PDF and a MS Word file through the link at the bottom of the page.

Student groups should be given approximately 45 minutes to 1 hour to complete the webquest. This is largely dependent on how familiar students are with their technology and how quickly they work. Weaker students can be placed in groups with stronger ones.

find, validate
 remember, understand
 collaborate, communicate

Group work (We Do)

Completion of the Webquest

Lesson 2: Terminology Review (5 Minutes)

Same as above

find, validate
 remember, understand
 collaborate, communicate

Class share (We Share): (10 minutes)

Bring the students back together and have them share the results of their webquest. Discuss any questions they may have concerning the webquest or the terminology used. This will give students a chance to debrief the activity and clarify any problems they may have experienced with the terminology or the concepts covered.

- remember, understand
- collaborate, communicate
- evaluate, leverage

Lesson Wrap Up:

Have the students log onto [Socrative](#) using their tablets and access: “Forecasting the Weather” Share Quiz (SOC #: **16778839**) on the class site. (I have made this a public [Socrative](#) quiz for other teachers who may want to use it.)

Students will complete the 5 question quiz and this will act as their “exit pass” for the day. (SOC #: **16778839**)

In the next lesson we will be constructing some of our own weather instruments similar to those used by meteorologists to predict the weather. In preparation for this lesson please read the selection: “[The Meteorologists Toolkit](#)” tonight. The PDF selection can be downloaded to your iPad tablet.

Differentiation/Modification/Enrichment:

For enrichment students may want to create their own weather forecasting webquest and share it with their classmates.

For differentiation weaker students can be paired with stronger ones in the small groups when completing the webquest.

Students who have difficulty with the reading : “[The Meteorologists Toolkit](#)” can use Claro on their iPad Tablets to have the reading read to them.



Assessment:

- *Observation and participation in small group and class discussions.*
- *Student achievement on the Socrative Quiz.*

Teacher Reflection:

