

Weather? Yes! School? Well.....Yes! Sort of.....read on:

So, it's a school day, and we don't want to have to make these "snow days" up at the end of the year, right? The activities below count as your school work for the snow day.

Below you will find a 5-step lesson plan that will count as a day of school. Bring the materials you will create to school with you on the next campus school day to make sure you receive credit and are not counted as absent.

Weather Lesson Plan "Air Pressure"

**When you see the "bullets" below,
that means it's something that you will do, like this:**

- **Read the lesson plan below and follow the instructions**

How do you know what the weather outside will be like where you live? You probably watch tv, listen to the radio, check the newspaper, or go to an online weather webpage like you would find on mymotherlode <http://www.mymotherlode.com/category/news/local>, or weather underground <https://www.wunderground.com/weather-forecast/zmw:95370.1.99999?MR=1>

One of the best weather pages is run by the National Weather Service, which you are going to learn more about in a minute....

1. The Weather

- Find a weather page for your location, or the nearest to you that you can find. On a piece of paper, or on a Google Doc or other file format, write down the Latitude and Longitude for that location, and the elevation.
- Next, write the predicted "forecast" for today and the next two days after. Make sure you include what the "pressure" or "air pressure" is! You probably haven't noticed this part of a weather forecast before and that's what this lesson is all about!

2. Air Pressure

The **National Weather Service** is a component of the **National Oceanic and Atmospheric Administration** (NOAA pronounced like the name "Noah").

- Go to the National Weather Service webpage here:
<http://www.srh.noaa.gov/jetstream/atmos/pressure.html>
- Read this page on Air Pressure
- Make a small 8.5" x 11" poster of your own that shows the same information as the one with the mountain and airplane that shows the air pressure at different elevations from earth's surface measured in millibars. Keep the data the same, but make the graphics your own originals.

3. The Activities

- There are 6 Learning Lessons on this page; they are also linked below:

[Air: A weighty subject](#)

[A Pressing Engagement](#)

[Going with the Flow](#)

[Crunch Time](#)

[Measure the Pressure: The "Wet" Barometer](#)

[Measure the Pressure II: The "Dry" Barometer](#)

They are activities that you can do at home.

- Choose two of the above activities to do for yourself - you can involve others who are with you, if you would like

Choose one of the options below for "journaling" your activities:

- **Option One**

Journal your activity step-by-step either on paper or on computer file

- **Option Two**

Use pictures or video to demonstrate the steps and result of the activities you choose

4. The Videos

- Watch the following two videos about Air Pressure:
5:11 <https://www.youtube.com/watch?v=xJHJsA7bYGc>

5:34 <https://www.youtube.com/watch?v=QeAp3CuGjk8>

Both of these videos have one experiment in common (glass/test tube of water and card/piece of paper)

- Conduct this experiment (from the video) yourself, and as you did with the others, write about or photo/video the steps and result

5. The Finale

- In a paragraph, and using at least one illustration, summarize what you learned about Air Pressure