



Name: _____

Fundamentals of Earth Science: **Week 17 HOMEWORK CHECKLIST**

5th & 6th Grade

Due on February 2nd

_____ **(1 point) Read Lessons 17: Precipitation**

The lesson page was handed out in class and should be in your binder. As you carefully read, neatly highlight or underline the main points in the lesson. This is a study skill that will help you connect with what you are reading and help you to retain the information.

_____ **(2 points) Videos for Reinforcement and Review: Types of Precipitation**

Where Do Snowflakes Come From? (SciShowKids): <https://www.youtube.com/watch?v=-M48RfaWcWA>

What Makes it Snow? (FreeSchool): <https://www.youtube.com/watch?v=M8oM9jF3P5M>

_____ **(2 points) SHARE Junior Meteorologist Training Lesson 3—Recording all the weather elements. (FOR A PROJECT GRADE—Carefully read and follow instructions below)**

Choose five days this week to record data and observations for all six weather elements: temperature, atmospheric pressure, wind speed & direction, humidity, cloud coverage, and precipitation. You were given a data collection sheet in class to record the information. Links for two weather websites are listed at the bottom of your data collection sheet AND will be posted on the class webpage. Don't forget to type in your zip code to get the weather for your area. Both of these websites provide the information needed to fill in the chart, with the exception of your personal cloud observation and sketch. **Be neat and as accurate as possible as it will count as a project grade. Glue to page 88 in your lab notebook when complete.**

- There is a box listed on your sheet for you to check once you have viewed some of the radar and satellite images for each day you are making your observations. I just want you to spend a minute or two looking at some of the satellite or radar images for the various elements of weather each day. The Weather For You link has a variety of satellite/radar images to look at if you click on the "Latest" box on the top bar to the left. Click on "Cloud Cover" on the drop down menu. After you click on that you will see a satellite map of cloud coverage with a box in the top left corner that says "weather type" which will allow you to view different types of satellite maps.

- Next week you will be asked to answer some questions about your data so if you make any interesting observations or notice any patterns write them on a scrap piece of paper so you won't forget.

_____ **(2 points) Reading a Weather Map/Mapping the Weather Worksheets (For a Grade)**

This is a two-sided worksheet that was handed out in class and should be in your binder. Follow the map key information to answer the five questions on the "Reading a Weather Map" side and use the same map key symbols and example to map out the weather forecast on the "Mapping the Weather" side of the page. To be turned in next week.

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_____ **(2 points) Playing with Pinecones—Nature's Weather Forecaster**

Pinecones were given last week in the science lab supplies bag. (Be careful handling the pinecones...they have sharp points). Below are links to websites that give instructions for experimenting with your pinecone and info on why pinecones do what they do! **Complete the activity with the asterisks first and record what you did and learned on page 93 of your lab notebook.**

****Why Do Pine Cones Open and Close:** <https://academy.animaljam.com/posts/why-do-pinecones-open-and-close>. (Click on the pdf button to download instructions)

Forecasting with Pine Cones: <https://www.science-sparks.com/pine-cone-weather-station/>

(Extra Credit Activity—Pine Cone Weather: <https://thehappyscientist.com/content/pine-cone-weather> Take a picture and let me know if you do this activity and how it worked for you.)

_____ **(1 point) Natural Weather Forecasters Worksheet**

This was handed out in class. Follow the directions on the sheet and turn in next week.

_____ **(2 points) Videos in Preparation for Next Lesson: Fronts and Forecasting**

Air Masses & Fronts (Study Jams): <http://studyjams.scholastic.com/studyjams/jams/science/weather-and-climate/air-masses-and-fronts.htm>

Types of Fronts (MooMooMath): <https://www.youtube.com/watch?v=-ez4QoQLnZ8>

_____ **(2 point) Weather Forecast Bingo**

Cut out the clue cards and the two bingo game boards that were given to you in class. Store the game boards behind the envelope and the game pieces in the envelope on page 91 of your lab notebook. Follow the directions on page 90 of your lab notebook and play at least twice this week. There are two different game boards to play with a partner if you are able to do so.

_____ **(1 point) Jeopardy and Flashcard Weather Review**

A take-home test covering the weather unit will be sent home in two weeks (on February 9th). In preparation for the test play at least one jeopardy game and go through the flashcards a few times. **New review games with added material and appropriate to each grade level will be posted by Friday evening.**

Parent Signature: _____

Homework Completion Grade _____/15 points