**Pathway: 7.E.1.3 Air Masses & Frontal Boundaries DUE IN CLASS, Thursday, 10/14**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Time on task* |  |  |  |  |  |  |  |  |  |
| 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |

*Agreements:*

1. I will **label and show my work** for each activity in my notebook. I will glue, staple, or tape in any activity that is on a separate sheet of paper. I understand that if my notebook is not organized or if I do not show my work, I will lose points on my assignments.
2. If I have a question, I will **ask** **three** **classmates** *before* I ask my teacher.
3. At the stop signs, I will make sure **my teacher checks my work** before I move on. I know she wants to make sure I understand the information I am learning.

***HOMEWORK*:** You are required to complete Atmosphere & Weather Video #7. Due on Thursday, 10/14.

***CLASSWORK*:** All assignments can be found below. *Please* let your teacher know ASAP if you don’t have access to a computer or the internet at home so she can provide you with resources.

|  |  |  |
| --- | --- | --- |
|  | **Go to:** | **Evidence of Understanding:** |
| **Introduction**: *What are air masses?*  What are the two characteristics we use to classify an air mass?Where do air masses get their characteristic from?  | * Power Point in Google Classroom
 | Write out the 3 introductory questions (in the first box on the left) and answer on page 45-46 of your science notebook *in your own words.* Label pages 46-47 “Air Masses and Fronts Pathway”. |
| **What are the major types of air masses that affect North America?** | **Choose two options:*** <https://www.youtube.com/watch?v=Kmhizd4De2E>
* Watch Discovery Education video, “Air Masses” in your assignments tab of Discovery Education
* Use the textbook, pgs. A79-A85
* Look at “Air Mass Types” image shared with you on Google Classroom
 | **Create a chart you create in your science notebook** for each type of Air Mass in North America.

|  |  |  |
| --- | --- | --- |
| **Symbol** | **Name** | **Characteristics** |
| mP | maritime polar | wet, cold |
| mT |  |  |
| cP |  |  |
| cA |  |  |
| cT |  |  |

 |
| **When air masses meet...what is a front?** | Watch animation, “Meteorology” assigned in Discovery Education. | Write out and answer the question, “What is a front?” |
| **Fronts** | **Choose two options:*** Discovery Education animation, “Make it Rain” in your assignments tab of Discovery Education
* Discovery Education video clip, “Fronts” in your assignments tab of Discovery Education
* Pearson Prentice Hall Animation, <http://www.phschool.com/atschool/phsciexp/active_art/weather_fronts/>
* Use the website: [http://ww2010.atmos.uiuc.edu/(Gh)/guides/mtr/af/frnts/home.rxml](http://ww2010.atmos.uiuc.edu/%28Gh%29/guides/mtr/af/frnts/home.rxml) (You will need to click on the links to see each in detail)
* Use the textbook, pgs. A79-A85
* Use the website, <http://okfirst.mesonet.org/train/meteorology/Fronts.html>
 | List and describe the four types of fronts. Include a color-coded sketch of the symbol from a weather map. You can also sketch a side view of the weather event if you would like. |
| **Exit Ticket: How well do you know it?** | The exit ticket is on [www.exittix.com](http://www.exittix.com). if you have not set up your account the information is on the side board.  |  |