

Air Mass and Fronts Project -----Due: **SEPTEMBER 28TH**

Introduction: The troposphere interacts with the Earth to bring us weather,; wind, air pressure and the water cycle help bring different air masses and fronts to different locations.

Instructions: In partners you will create a storybook that explains the process of how an air mass forms and what type of front develops from that air mass. You will use the websites provided below to research a specific type of air mass and front. You will use that information to formulate a children's book.

Storybook Details:

1. On the front page: Book Title, Cover Image and Authors
2. Story Details must include all FIVE air masses and at least TWO fronts - Characteristics include:
 - i. The temperature and moisture of the air mass
 - ii. Locations of where air masses are more frequent
 - iii. Movement of air based on temperature
 - iv. Weather that occurs during each front
3. Story Pages- Each page should have:
 - a. Information for the story (3 sentences max per page)
 - b. Pictures that represent the story and information on that page
 - c. Vocabulary words underlined
4. Inside Back Cover: List the type of air masses and air fronts and three characteristics of each of the fronts and masses
 - a. The temperature and moisture of the air mass
 - b. Locations of where air masses are more frequent
 - c. Movement of air based on temperature
 - d. Weather that occurs during each front
5. Color must be used - write in pencil FIRST
6. The story should be at least 5 pages long (not including the front or back cover) and include enough information to fill the 5 pages

Websites:

<http://climate.ncsu.edu/edu/Fronts>

<http://okfirst.mesonet.org/train/meteorology/Fronts.html>

<https://www.metoffice.gov.uk/learning/atmosphere/air-masses/types>

<https://www.weather.gov/jetstream/airmass>

http://meteorologytraining.tpub.com/14312/css/14312_89.htm

Rubric:

	Story Specifics (Child phrased, Story Flow and Pictures)	Back Inside Cover - Details about the air masses and fronts (#4 above)	Specifications (Pages, Title, Color, Images and Underlining, On-time)	Daily Check Points, Behavior, Teamwork
Level 5	Includes a good flow of the story, accurate details about air masses and fronts and pictures match up with story.	All five air masses and TWO air fronts are discussed - temperature, moisture and location included	Includes at least 5 pages, a title, lots of color, vocabulary words underlined and turned in on-time.	All Daily Check Points met, Behavior (following class procedures and on-task) and working with your partner
Level 4	Missing ONE: good flow of the story, accurate details about air masses and fronts and pictures match up with story.	Missing ONE of the following: type of air mass, front, temperature, moisture, weather or location.	ONE of the following not accurate: at least 5 pages, a title, lots of color, vocabulary words underlined and turned in on-time.	Meeting check points, but behavior is average and barely working with your partner
Level 3	Missing TWO: good flow of the story, accurate details about air masses and fronts and pictures match up with story.	Missing TWO of the following: type of air mass, front, temperature, moisture, weather or location.	TWO of the following not accurate: at least 5 pages, a title, lots of color, vocabulary words underlined and turned in on-time.	Not quite meeting check points, behavior and team work is average
Level 2	Details, flow and images are not related.	Missing THREE of the following: front, temperature, moisture, weather or location.	THREE of the following not accurate: at least 5 pages, a title, lots of color, vocabulary words underlined and turned in on-time.	Not meeting check points, behavior and team work is well below average
Level 1	All information missing.	Missing FOUR of the following: front, temperature, moisture, weather or location.	FOUR of the following not accurate: at least 5 pages, a title, lots of color, vocabulary words underlined and turned in on-time.	Present, but not on-task at all
Level 0	No story.	Missing all info.	Missing all.	Nothing turned in