

When Air Masses Meet Investigation

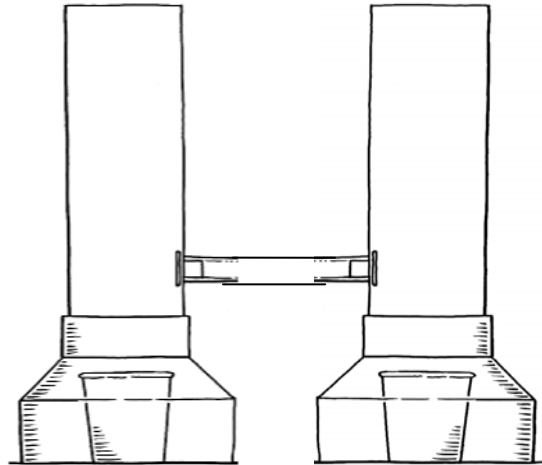
You will be answering: What happens when similar and different air masses meet.

Remember: Air Masses are determined by _____ & _____.

Using the convection tube set-up below, **create** three investigation trials that will demonstrate the movement of air masses. Observe and determine what will happen when; two wet/cold masses meet, a wet/hot and dry/hot meet, a wet/cold and dry/hot meet . Record your set-up below.

Materials:

- 1 Convection current tube set
- Piece of tubing
- A cup of hot water
- 1 candle
- 2 cups with ice
- A Flashlight
- 1 punk stick (incense stick)



List: What data will you observe?

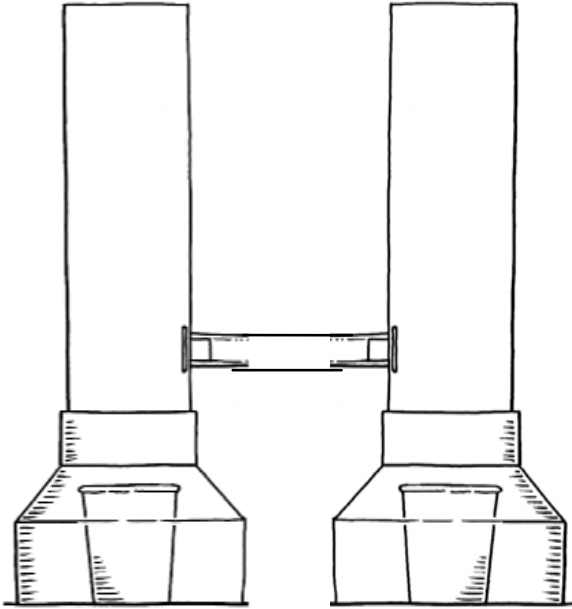
- _____
- _____
- _____

Data Table: Air Mass set up and Results

Air Mass Qualities	Air Mass Names	Set Up	Results
Wet/Cold & Wet/ Cold			
Wet/Hot & Dry/ Hot			
Wet/Cold & Dry/Hot			

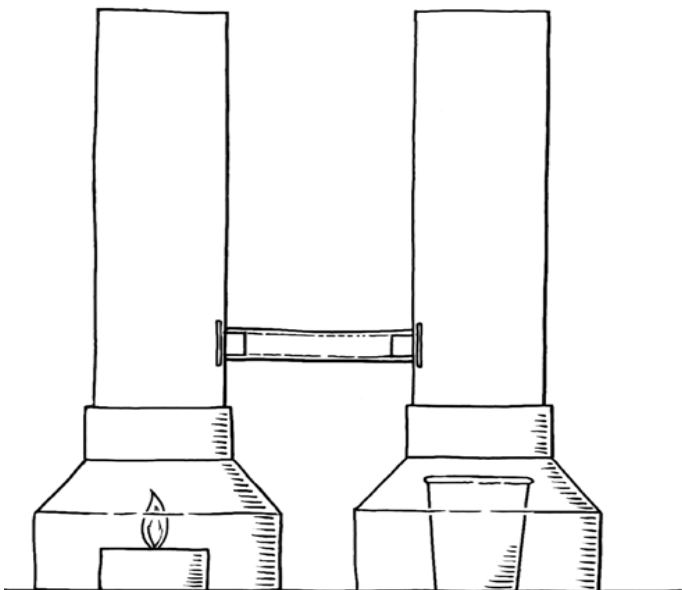
Investigating When Air Masses Meet Data Sheet

Trial 1: Maritime Polar & Maritime Polar Air Masses Meet

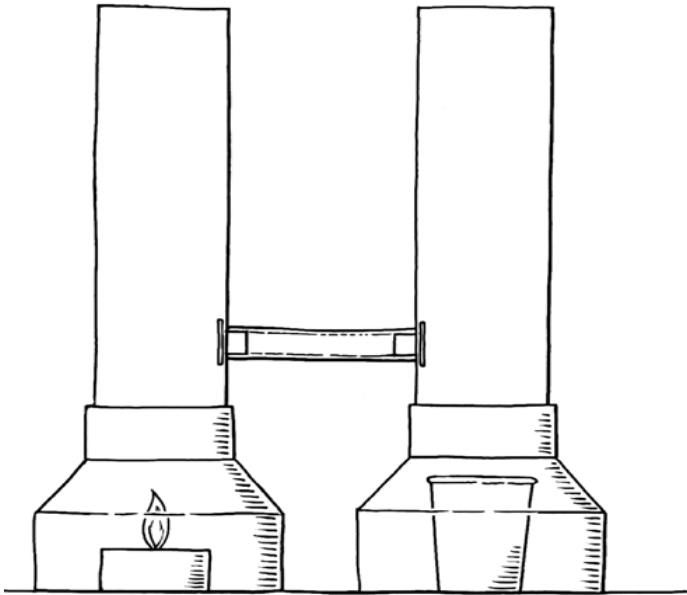


Label the convection tubes and draw arrows showing the direction the smoke (air) moved.

Trial 2: Continental Tropical & Maritime Tropical Air Masses Meet



Label the convection tubes and draw arrows showing the direction the smoke (air) moved.

Trial 3: Continental Tropical & Maritime Polar Air Masses Meet

Label the convection tubes and draw arrows showing the direction the smoke (air) moved.

