**Meteorology**

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| **Objective** |  |  |
| 1. Explain how air masses move (pressure differentials). |  |  |
| 1. Explain how interactions of air masses form frontal boundaries, clouds, and affect wind patterns.   Note: Also address precautions for severe cyclonic storms to preserve life and property. |  |  |
| 1. Explain factors that affect air density and understand their influence on winds, air masses, fronts and storm systems. |  |  |
| 1. Use data to substantiate explanations and provide evidence of various air mass interactions.   Note: Also address precautions for severe cyclonic storms to preserve life and property. |  |  |
| 1. Observe, analyze and predict weather using technological resources. |  |  |
| 1. Interpret and analyze weather maps and relative humidity charts. |  |  |
| 1. Explain the importance of water vapor and its influence on weather (clouds, relative humidity, dew point, precipitation).   Note: Use predictions to develop plans for safety precautions related to severe weather events. |  |  |