**Meteorology Study Guide**

Everything you need to know!

EEn.2.5 Understand the structure of and processes within our atmosphere.

**EEn.2.5.1 Summarize the structure and composition of our atmosphere.**

1. Summarize information from charts and graphs regarding layers of the atmosphere, temperature, chemical composition, and interaction with radiant energy.

(What can you predict about the amount of radiant energy from the sun and how it impacts the weather of a certain location?\*\*\*\*)

**EEn.2.5.2 Explain the formation of typical air masses and the weather systems that result from air mass interactions.**

1. Explain how air masses move (pressure differentials).**\*\*\*\***
2. Explain how interactions of air masses form frontal boundaries, clouds, and affect wind patterns.**\*\*\*\***

**EEn.2.5.3 Explain how cyclonic storms form based on the interaction of air masses.**

1. Explain factors that affect air density and understand their influence on winds, air masses, fronts and storm systems.**\*\*\*\***
2. Use data to substantiate explanations and provide evidence of various air mass interactions

**EEn.2.5.4 Predict the weather using available weather maps and data (including surface, upper atmospheric winds, and satellite imagery).**

1. Observe, analyze and predict weather using technological resources.
2. Interpret and analyze weather maps and relative humidity charts.
3. Explain the importance of water vapor and its influence on weather (clouds, relative humidity, dew point, precipitation).**\*\*\*\***

**\*\*\*\* = Questions that are due on test day!**