Study Guide #4 **WHY DOES THE WEATHER CHANGE?**

Grade 4

**Know these terms:**

Meteorologist – Scientist who studies weather

Barometer – an instrument that measures pressure

Weather – condition of the atmosphere at one time and place

Air mass – body of air with the same temperature and moisture

Front – Place where two different air masses meet

Hurricane – Large violent storm that forms over a warm ocean

Tornado – Violent, rapidly circling column of air

What are typhoons? cyclones? monsoons? Santa Ana winds? blizzards?

You would expect an air mass that forms over a desert to be **warm and dry**.

When a cold air mass meets a warm air mass and pushes the warm air mass upward along the front, you would expect the weather to be **stormy**.

Winds in the Indian Ocean that bring heavy rain storms are called **monsoons**.

How do warm and cold air masses behave when they meet along a front?

*Warm and cold masses do not mix when they meet. Cold air masses often cause storms when passing UNDER warm air masses.*

To predict tomorrow’s weather, what area would you most want weather information about?

*You’d most want weather info about areas to the west because weather usually moves form west to east.*

What causes the damage when a hurricane reaches coastal areas?

*Strong winds, rain, tides and large waves cause damage during a hurricane.*

**Review and study previous study guides.**