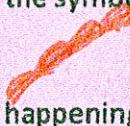


## Weather Test Study Guide

<h3>Air masses</h3> <p>-Take the characteristics of the land they were formed over</p> <p>-Identified by two letters (first is for humidity and second is for temperature)</p> <p>Continental (c): <i>land (dry)</i>      Maritime (m): <i>Sea (moist)</i>      Tropical (T): <i>warm</i>      Polar (P): <i>cold</i>      Arctic (A): <i>bitter cold</i></p>	<h3>Hurricanes</h3> <p>Tell me everything I need to know about Hurricanes here:</p> <p>low pressure systems that form in tropical waters      use warm water as fuel      rely on Coriolis Effect      start at tropical depression      can be 100's of miles wide</p>
<h3>Tornadoes</h3> <p>Tell me everything I need to know about Tornadoes here: <i>caused by warm moist air in front of eastward moving cold fronts</i></p>	<h3>Thunderstorms</h3> <p>Tell me everything I need to know about Thunderstorms here: <i>sudden change in cold &amp; hot air masses</i></p> <p><i>Thunder cumulonimbus clouds lightning humid afternoons</i></p>
<h3>Fronts</h3> <p>What is a front?</p> <p><i>a place where cold and warm air masses meet</i></p> <p>What are the 4 types of fronts?</p> <p><i>cold warm stationary occluded</i></p>	<h3>Warm Front</h3> <p>What is the symbol on a weather map?</p>   <p>What is happening?</p> <p><i>warm air is rising up and over cold air</i></p> <p>What is the associated weather and cloud cover?</p> <p><i>stratus clouds, light rain</i></p>
<h3>Cold Front</h3> <p>What is the symbol on a weather map?</p>  <p>What is happening?</p> <p><i>cold air pushing warm air up</i></p> <p>What is the associated weather and cloud cover?</p> <p><i>clear blue skies preceded by severe weather</i></p>	<h3>Stationary Front</h3> <p>What is the symbol on a weather map?</p>  <p>What is happening?</p> <p><i>air masses meet until one takes over</i></p> <p>What is the associated weather and cloud cover?</p> <p><i>rain lasting days</i></p>

<h3>Coriolis Effect</h3> <p>What is the Coriolis Effect?  <b>the deflection of wind as a result of earth's rotation</b></p> <p>Why is it important?  <b>it effect weather patterns</b></p>	<h3>Air Quality</h3> <p>What is air quality?  <b>determines the amount of pollution and particulate matter in the air</b></p> <p>List some things that negatively impact our air quality:  <b>gases, fossil fuels, Particulate matter</b></p>
<h3>Stratospheric v. Tropospheric Ozone:</h3> <p>Where do I find "good" ozone? Why do we want to have ozone here?  <b>stratosphere protects from harmful UV rays</b></p> <p>Where do I find "bad" ozone? What kinds of problems does it cause?  <b>troposphere stops radiation from leaving our atmosphere and keeps</b></p> <p><b>Smog</b></p> <p>What is Smog?  <b>a colloid of smoke, fog, and chemicals and irritates the lungs</b></p> <p>Where does it come from?  <b>smoke fog and chemicals</b></p> <p>How does it affect us?  <b>irritates the lungs</b></p>	<h3>Particulate Matter</h3> <p>What is particulate matter?  <b>tiny droplets or particles in the air</b></p> <p>Where does it come from?  <b>dust dirt pollen</b></p> <p>How does it affect us?  <b>makes poor air quality</b></p> <h3>Acid Rain</h3> <p>What is acid rain?  <b>harmful mixture of gasses and water vapor</b></p> <p>Where does it come from?  <b>pollution</b></p> <p>How does it affect us?  <b>harmful to our skin</b></p>
<h3>Global Warming</h3> <p>What is global warming?  <b>the gradual increase in temperature</b></p> <p>How is global warming related to greenhouse gasses?  <b>green house gases are trapped in because of ozone layer creating the green house effect which traps in radiation the increase in temperature contributes to global warming.</b></p> <p>Why would warmer temperatures cause problems?  <b>melts ice caps</b></p>	