Regents Topic Test # 3 (Heat Transfer)

- Heat Transfer (heat gain vs. heat loss) - Isobars / Isotherms

* Convection (Definition) - What effects evaporation
* (Best in what? How it works?) - Relative Humidity (& how to find)
* Conduction (Definition) - Dew Point (& how to find)
* (Best in what? How it works?) - Sling Psychrometer (wet/dry bulb)
* Radiation (Definition) - Types of Clouds (Fronts they bring)
* (Best in ?, Works how, Effected by) - Types of Precipitation
* Specific heat (Land vs. Water) - Atmospheric Transparency
* 3 ways our Atmosphere is heated - Types of Fronts
* Green house effect and gasses - Warm and Cold Front Weather
* Types of Energy and phase changes - How read & make a Station Models
* States and changes of matter - Barometer & recording(+/- 10 or 9)
* (Global winds) General Wind patterns - Wind speed and direction
* (Local winds) What effects them - Mountain problem
* Coriolis effect: Deflections Right and Left - Air rises, expands and cools
* What causes winds (Moves how) - Air sinks, Compresses and warms
* \* Low and High pressure systems - Air Masses (cP, cT, mP, mT, cA)
* How they move & weather they bring - Wet vs. Dry Air / Hot vs. Cool Air
* How L & H pressure systems track - Saturated vs. Unsaturated air
* Atmospheric layers and gas %’s - Cloud Nuclei
* Ultra Violet and Infrared Radiation - Anemometer & weathervane
* Hottest/Coldest time of year/day - Pollutants
* Properties of H20 and phase changes

Text book pages: Chapters: - 17, 18, 19, 20 ( do a quick overview of 21)

ESRT – 1, 12, 13, 14

Review book: 5, 7

* ***Topic: 5*** ***Topic :7***
* Calorie -Air Mass -Air pressure Gradient
* Condensation -Anemometer -Barometric / air pressure
* Conduction - Atm. Transparency - Barometer
* Convection - Cloud Cover - Cold front
* Crystallization - Cyclone - Cyclonic storm
* Electromagnetic energy - Dew point - Front
* Electromagnetic Spectrum - Humidity - Isobar
* Energy - Jet Stream - Monsoon
* Heat energy - Occluded Front - Planetary Wind Belt
* Mechanical Energy - Polar Front - Precipitation
* Nuclear Decay - Probability - Psychrometer
* Radiation - Radar - Relative Humidity
* Solidification - Stationary Front - Station Model
* Specific heat - Troposphere - Visibility
* Temperature - Warm Front - Water Vapor
* Texture - Weather Variables
* Vaporization
* Wave Length