

Name: _____

Date: _____ Period: _____

Midterm Review

The Physical Setting: Earth Science

Midterm Review: Earth Science Reference Tables

Direction: Use the Earth Science Reference Tables to answer all questions on a separate piece of paper.

Equations:

1. What is the equation for density?
2. What is the density of a substance when the volume is 5.0 cm^3 and the mass is 25 grams?
3. What is the equation for gradient?
4. What is the gradient if a student measures the temperature at the ground to be 30° C and two meters above that same location 35° C ?

Generalized Bedrock Geology of New York State:

1. What is the latitude of Slide Mountain?
2. What is the longitude of Watertown?
3. What is the latitude and longitude of Binghamton?
4. What is the straight line distance between Albany and Jamestown?

Surface Ocean Currents:

1. What is the current that runs along the eastern coast of the United States?
2. What is the current that runs along the western coast of the United States?
3. What type of current is the Brazil Current?
4. What type of current is the Labrador Current?

Dewpoint Temperatures:

1. What is the dewpoint if the dry bulb temperature is 16° C and the wet bulb temperature is 10° C ?
2. What is the dewpoint temperature if the dry bulb temperature is 10° C and the wet bulb temperature is 8° C ?
3. What is the wet bulb temperature if the dewpoint is 9° C and the dry bulb temperature is 16° C ?
4. What is the dewpoint if the dry bulb temperature is 18° C and the wet bulb temperature is 15° C ?

Relative Humidity:

1. What is the relative humidity if the dry bulb temperature is 16° C and the wet bulb temperature is 10° C ?
2. What is the relative humidity if the dry bulb temperature is 10° C and the wet bulb temperature is 8° C ?
3. What is the wet bulb temperature if the relative humidity is 7% and the dry bulb temperature is 16° C ?
4. What is the relative humidity if the dry bulb temperature is 18° C and the wet bulb temperature is 15° C ?

Temperature:

1. If the temperature at East Islip High School is 10° C , what is the Fahrenheit temperature?
2. What is 20° C equal to in Fahrenheit?
3. What is 160° F equal to in Celsius?
4. What is 100° C equal to in Kelvin?

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Pressure:

1. The pressure at school was recorded to be 992.0 millibars. How many inches of Mercury is that equal to?
2. What is 1000.0 millibars equal to in inches of mercury?
3. What is 30.0 inches of mercury equal to in millibars?
4. What is the shorthand form that appears on a station model for the air pressure of 1000.0 mb?

Selected Properties of Earth's Atmosphere:

1. What is the boundary between the stratosphere and the mesosphere?
2. What is the boundary between the mesosphere and the thermosphere?
3. Does temperature increase or decrease in the troposphere?
4. Does temperature increase or decrease in the mesosphere?

Electromagnetic Spectrum

1. What has the largest wave length?
2. What has the smallest wavelength?
3. What part of visible light has the smallest wave length?
4. What part of visible light has the largest wave length?

Planetary Winds and Moisture Belts:

1. Which way do the planetary winds blow towards between 30°N and 60°N?
2. Does the equator experience wet or dry weather?
3. Are the winds diverging or converging at 30° S latitude?
4. Why is the air at the South Pole dry?

Luminosity and Temperature of Stars

1. What type of star is the smallest on the Luminosity and Temperature of Stars chart?
2. How many times more luminous is Aldebaran than our Sun?
3. What is the approximate temperature of Polaris?
4. Name three stars that are apart of the main sequence?
5. What color are the hottest stars?
6. What color are the coolest stars?
7. Betelgeuse is how many times brighter than our Sun?
8. What is the temperature of our Sun?

Solar System Data

1. What is the period of rotation of the Sun?
2. What is the period of revolution of Venus?
3. What is the eccentricity of Mars's orbit?
4. What planet has the least eccentric orbit?
5. What is Saturn's density?
6. What is Uranus's mass?
7. Which planet has the largest equatorial diameter?
8. Which planet has the most eccentric orbit?