

## Earth Science Reference Tables: Scavenger Hunt!!!

Find the following information in your Earth Science Reference Tables. Write the answer and the page you found it on. The table who finishes first will receive 5 points extra credit on their Topographic Map lab.

- 1) What kind of tectonic-plate boundary runs along South America's western coast?
- 2) Where in New York State could I find metamorphic rock that dates back to the Middle Proterozoic era?
- 3) What stream velocity do I need to maintain the movement of a 1.0-cm particle through a stream?
- 4) What are two possible fates for an igneous rock?
- 5) Which geologic period gave rise to the climax of dinosaurs and ammonoids?
- 6) If I am  $9 \times 10^3$  km away from the epicenter of an earthquake, how long would it take for an S-wave to hit me, in hours?
- 7) What is the density of Earth's oceanic crust? Include units.
- 8) What percent (by volume) of the earth's crust is made up of magnesium?
- 9) A mineral is white to pink, cleaves in 2 directions at 90 degrees, and is used in ceramics and glass.
  - a. What is its name?
  - b. What is its hardness?
  - c. Does it have a metallic or a nonmetallic luster?
- 10) What is the chemical formula for biotite mica that contains potassium?
- 11) What is the temperature of the mesopause, in degrees Celsius?
- 12) How long does it take for Uranus to circle the Sun?
- 13) Which color light has the longest wavelength—green, violet, or yellow?
- 14) At the vernal equinox, what is the latitude of the Northern Hemisphere's 'dry belt'?
- 15) A red dwarf star has a high \_\_\_\_\_ and a low \_\_\_\_\_.
- 16) I use a psychrometer to measure the relative humidity on a starry summer night. My dry-bulb temperature is 18 degrees Celsius, and my wet-bulb temperature is 19 degrees Celsius. What is the relative humidity, in %?

- 17) What is the symbol for freezing rain?
- 18) The massive continent Pangea began to break up during this geologic age.
- 19) Maclurites came to be during this geologic age.
- 20) What happens to atmospheric pressure as you go from the troposphere to the thermosphere?
- 21) What is the specific heat of Pb?
- 22) What is Uranium-238's half-life?
- 23) How much energy is gained by 3 grams of ice when it changes to water?
- 24) What are the names of two plateaus in New York State?
- 25) What are some types of sedimentary rock that were formed during the Cambrian period?
- 26) I have a green igneous rock that has a fine texture and no gas pockets. What is its name?
- 27) What is the temperature (in Kelvin) of the human body?
- 28) What pressure (in millibars) is equivalent to 30 inches of mercury?
- 29) Which has a larger frequency, gamma rays or radio waves?
- 30) What is the wavelength of green light?
- 31) What is the New York State fossil?