

Working with the Reference Tables

Name _____

The information in the Earth Science Reference Tables is available for your use on labs, quizzes, and even on the Regents exam. Date _____ Per. _____

Although you need not memorize this data, you should have an idea of what kind of information is available in this document, and where to find it. (Please use the 2011 edition of the Reference Tables.)

Page 1: 1. To the nearest 0.1 cm, what is the width of this paper? _____

Page 2: 2. In what landscape region is Albany, NY? _____

Page 3: 3. How many kilometers are there in 50 miles? _____

4. In what direction is Buffalo from Syracuse? _____

5. What is the *metric* distance from Elmira to Binghamton?
(If you got less than 70 km, measure it again because you have made a mistake.) _____

6. What is the geologic age of the bedrock at Syracuse? (Use the map key.) _____

Page 4: 7. What ocean current warms Western Europe? _____

Page 5: 8. In what direction is the North American plate moving? _____

Pages 6, 7, 8, & 9: (questions on back)

Page 10: 9. What is the name of the deepest layer within the Earth? _____

10. How large is the radius of the Earth? _____

11. What is the temperature at the center of the Earth? _____

Front Cover 12. What is the most common element in the rocks of the Earth's crust? _____

Page 11: 13. Which take longer to travel through the Earth, P-waves or S-waves? _____

Page 12: → What is humidity when air temp is 12°C + wet bulb is 10°C? _____

Page 13: 14. What Fahrenheit temperature is equal to 0°C? _____

Page 14: 15. What form of electromagnetic energy has the shortest wavelength? _____

16. Visible light is between _____ and _____ in the electromagnetic spectrum.

Page 15: 17. What planet is the farthest from the sun? _____

18. Which planet is the most dense? _____ ...least dense? _____

Page 14: 19. What geographic feature is at an altitude of "zero kilometers"? _____

20. Near the equator, is it usually moist or usually dry? _____

21. What direction do planetary winds in our latitude blow toward. _____

Front Cover 22. What is the density of water at 3.98°C? _____

Back Cover 23. What mineral is mined for its source of iron and would scratch glass, but does not exhibit cleavage. _____

Page 6: What three things can happen to a sedimentary rock?

What processes change metamorphic rock into igneous rock? _____ & _____
What stream velocity is needed to move all sand, silt and clay sized particles? _____

What name is given to a particle with the diameter of 0.1 cm? _____

What igneous rock has coarse texture and is rich in Silicon and Aluminum? _____

Why do volcanic basaltic glass and scoria have non-crystalline textures? _____

Page 7: What do all Land-Derived Sedimentary rocks have in common? _____

So, how do we tell them apart? _____

Which sedimentary rocks are chemically formed from evaporated sea water?

Which metamorphic rock was formed from sandstone? _____

What would phyllite morph into if heat and pressure were increased? _____

Page 8&9: What is the estimated time of origin of Earth and solar system? _____

During which Eon did oceanic oxygen begin to enter the atmosphere? _____

During which geologic period did Pangaea begin breaking up? _____

Which index fossil would help determine a rocks age to be Devonian? _____

When were the earliest mammals alive on earth? _____

What group of animals did the index fossil *W Maclurites* belong to? _____

What mountain building episode occurred when North America collided with Africa to form Pangaea? _____ How many million years ago? _____

p. 12 If the relative humidity is 62% and the dry bulb is 8°C, what is the wet bulb? _____

what is the dewpoint temperature if the wet bulb is 6°C and the air temperature is 10°C? _____

what happens when the air temp. cools to the dewpoint temp.? _____