

Name: \_\_\_\_\_

**Earth Science Reference Table Worksheet**

1. If you add the same amount of heat energy to equal masses of basalt, water, copper and iron, which will heat the fastest? Which will heat the slowest?
2. How much energy is needed to melt 45g of ice at 0°C?
3. How much energy is needed to boil 45g of water at 100°C?
4. What is the density if a sample of rock has a mass of 69g and a volume of 23ml?
5. Which has the greatest half life, carbon-14, potassium-40 or uranium-238?
6. What type of rocks make up the majority of the Allegheny Plateau?
7. Rock from the Tug Hill Plateau was formed at the same time as which other area of New York?
8. Which area of New York contains rocks that were formed during the Middle Proterozoic Era?
9. Which area of New York is made up of gravels, sands and clays?
10. What is the approximate latitude and longitude of Mt. Marcy?
11. What type of current is found on the west side of South America?
12. What is the name of the current located at 30°N 15°W?
13. What direction do the ocean currents circulate in the northern hemisphere?
14. Is the Brazil current a warm or cold water current?
15. What is the latitude of the Hawaiian hot spot?
16. What direction is the South American plate moving in?
17. What type of boundary is the East Pacific Ridge?
18. Which part of the United States can you find a transform boundary?
19. Which plate is more dense the Nazca or South American plate?
20. How does igneous rock form?
21. Sedimentary rock that is subjected to heat and pressure changes into what type of rock?
22. How does igneous rock become sedimentary rock?
23. Particle sizes from 0.2cm to 6.4cm are classified as what type of sediment?
24. What are the largest sized particles that can be moved by a river traveling at 100cm/sec?