

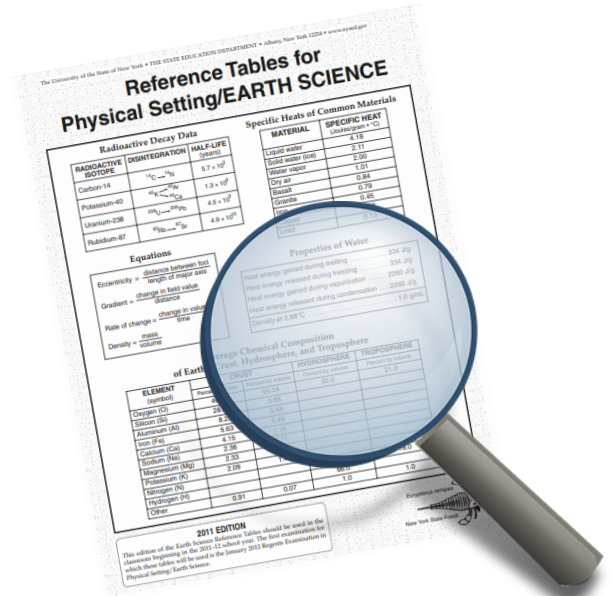
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Earth Science

# Earth Science Reference Tables Scavenger Hunt

LAB # \_\_\_\_\_



**Introduction:** Earth Science is a course in which you will observe, investigate, and measure the processes and interactions of planet Earth. The ability to fully understand all of these aspects depend, partly, on our careful study of Earth phenomena. The Earth Science Reference Tables (ESRTs) provide a great deal of information about Earth and its position in the Universe.

**Purpose:** To familiarize yourself with the content of the ESRT while analyzing various representations of data and information.

**Directions:** Search through the ESRTs to find the answers to the following questions.

## Interpreting Charts

1. When a liquid is vaporized (changed into a gas), how much energy is gained? \_\_\_\_\_
2. Name the sedimentary rock that is made up of cemented shell fragments or precipitates of biologic origin? \_\_\_\_\_
3. What is the percent by volume of magnesium in Earth's crust? \_\_\_\_\_
4. If the difference between the wet-bulb and the dry-bulb temperature is 4 and the dry-bulb temperature is 14, what is the dew point temperature? \_\_\_\_\_
5. Is Earth's Moon more or less dense than the planet Mars? \_\_\_\_\_
6. Which minerals have a hardness of 2.5? \_\_\_\_\_
7. Potassium-40 will decay into what 2 elements? \_\_\_\_\_  
How many years will it take? \_\_\_\_\_
8. Name one intrusive igneous rock. \_\_\_\_\_

9. What nonfoliated metamorphic rocks are formed by regional or contact metamorphism? \_\_\_\_\_
10. Which mineral composition is NaCl? What is its distinguishing characteristic? \_\_\_\_\_
11. Which planet's period of revolution is less than its period of rotation? \_\_\_\_\_

### Interpreting Maps

12. What type of landscape region is Long Island? \_\_\_\_\_
13. What is the symbol used to indicate rocks that are of Devonian age? \_\_\_\_\_
14. On what tectonic plate will you find the Yellowstone Hotspot? \_\_\_\_\_
15. What is the name and the temperature of the ocean current that travels past where we live?  
\_\_\_\_\_
16. What landscape regions can be found North and South of Lake Ontario? \_\_\_\_\_
17. What mountain is located at 42° North latitude? \_\_\_\_\_
18. Describe the flow of the Peru Current \_\_\_\_\_
19. What landscape region can be found east of the Adirondack Mountains? \_\_\_\_\_
20. What is the name of the current that travels across the entire globe? \_\_\_\_\_

### Interpreting Diagrams and Graphs

21. Through what process in the rock cycle would an igneous rock become a metamorphic rock?  
\_\_\_\_\_
22. What is the density range of the outer core found in the Earth's interior? \_\_\_\_\_
23. Visible light is in between what 2 parts of the electromagnetic spectrum? \_\_\_\_\_
24. What is the luminosity of the sun? \_\_\_\_\_
25. Name the period of geologic history when there were abundant dinosaurs. \_\_\_\_\_
26. In Earth's interior, what is another name for the plastic mantle? \_\_\_\_\_
27. If the epicenter distance of a P-Wave is  $4 \times 10^3$  km, how long would the travel time be?  
\_\_\_\_\_
28. What symbol would you use if the present weather was hail? \_\_\_\_\_
29. Which part of Earth's Atmosphere has the highest temperature? \_\_\_\_\_

30. What color star is Proxima Centauri? \_\_\_\_\_

31. In what part of the Earth's interior does the pressure reach above 3 million atmospheres?  
\_\_\_\_\_

32. If an S-Wave traveled for 17 minutes, what would the distance to the epicenter be? \_\_\_\_\_

33. If a station model showed 2 whole feathers, how many knots would the wind speed measure?  
\_\_\_\_\_

34. In which direction do the S.W. planetary winds blow (use arrows to indicate)? \_\_\_\_\_

35. Consider where we live. Using several different pages in the Earth Science Reference Table, summarize at least 3 unique pieces of information that describes your hometown. State the pages in which you found the information!

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