Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_ Hour: \_\_\_\_\_

Activity 16: The Periodic Table of Elements

Directions: After reading pages B22-B27, complete the following questions. Use complete sentences when necessary. Write your answers on lined paper and staple this page to it.

* 1. How many elements are there?
  2. What do elements make up?
  3. What is an atomic number?
  4. What does the dark “stepped line” divide on the Periodic Table?
  5. Use the Periodic Table to decide whether each of the following is a metal or nonmetal. Also, include the symbol for each.
     1. Lithium:
     2. Carbon:
     3. Sulfur:
     4. Calcium:
     5. Titanium:
     6. Bromine:
  6. What state of matter are MOST elements at room temperature?
  7. Why do 11 elements have white symbols?
  8. What is reactivity?
  9. How can you look at the Periodic Table and determine if an element will be reactive or not?
  10. What is magnesium’s symbol? What family does it belong to? What is its state of matter at room temperature? Is it reactive?

1. Locating Elements

|  |  |  |  |
| --- | --- | --- | --- |
| **Period** | **Family** | **Element Name** | **Element Symbol** |
| 4 | 1 |  |  |
| 2 | 14 |  |  |
|  |  |  |  |
|  | 16 | Selenium |  |
|  | 18 | Radon |  |
| 5 |  |  | In |
| 6 |  |  | Ta |