Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_

**Science Final Review**

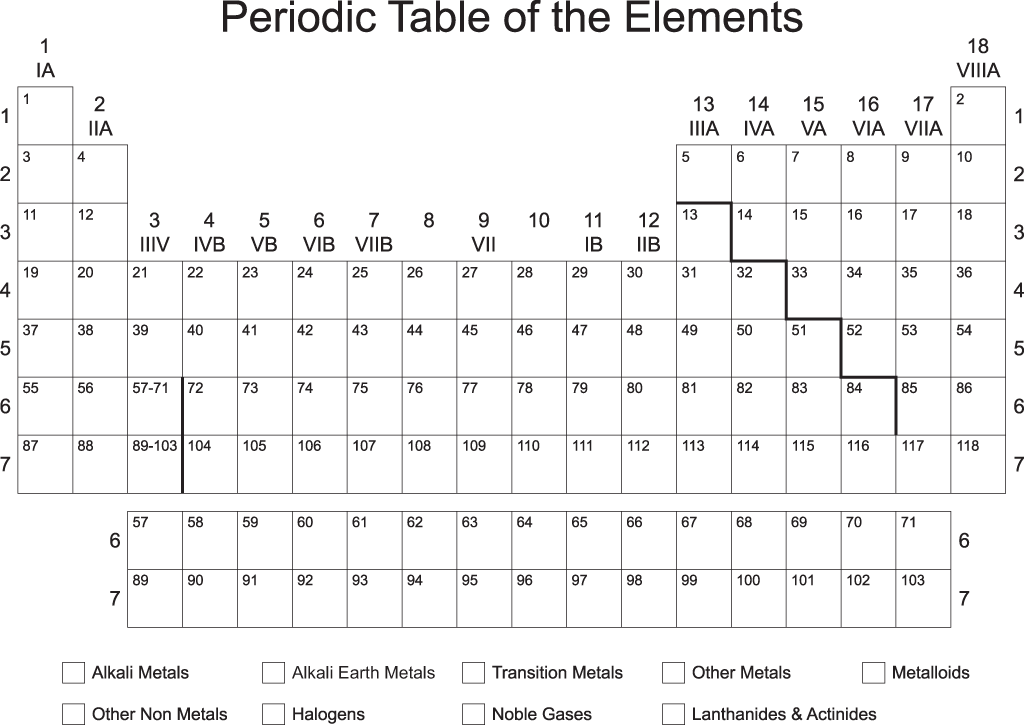
1. List the steps of the Scientific Method?
2. What is the difference between an observation and an inference? Give an example for each.
3. List 3 conditions when you would be required to wear safety goggles during an 8th Grade Science experiment (we do not dissect in 8th Grade).
4. List the purpose of each type of equipment and what it measures.
   1. Graduated Cylinder:
   2. Celsius Thermometer:
   3. Meter Stick:
   4. Goggles:
   5. Spring Scale:
   6. Beaker:
   7. Triple Beam Balance:
5. Write the definition and the metric unit for each of the following:
   1. Volume:
   2. Mass:
   3. Temperature:
   4. Density:
   5. Force:
   6. Work:
6. What is the difference between potential and kinetic energy?
7. What is the difference between a balanced force and an unbalanced force?
8. Balanced forces cause objects to…
9. Unbalanced forces cause objects to…
10. What is the formula for work?
11. Define speed, velocity, and acceleration then write an example for each.
    1. Speed:
    2. Velocity:
    3. Acceleration:
12. What is the formula for speed?
13. KNOW HOW TO READ A DISTANCE-TIME GRAPH AND A SPEED-TIME GRAPH.
14. What is Newton’s 1st Law?
15. What is Newton’s 2nd Law?
16. What is Newton’s 3rd Law?
17. Define density and write the formula for density.
18. Define weathering, erosion, and deposition.
    1. Weathering:
    2. Erosion:
    3. Deposition:
19. What is the continental drift theory and who proposed this theory?
20. List 3 types of evidence to help support the continental drift theory?
21. Fill in the table about the types of plate boundaries.

|  |  |  |  |
| --- | --- | --- | --- |
| **Type of Boundary** | **Sketch of Boundary** | **Direction of Movement** | **Types of Features** |
| **Divergent Plate Boundary** |  |  |  |
| **Transform Plate Boundary** |  |  |  |
| **Convergent Plate Boundary (Collision)** |  |  |  |
| **Convergent Plate Boundary (Subduction)** |  |  |  |

1. A topographical map shows-
   1. Earth’s layers
   2. the mineral content of the rocks
   3. the shape of the Earth’s surface
   4. Earth’s climate
2. Fill in the following chart:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Charge** | **Location** | **AMU** | **Function/Role** |
| **Protons** |  |  |  |  |
| **Electrons** |  |  |  |  |
| **Neutrons** |  |  |  |  |

1. Following the instructions below to complete the periodic table:
   1. Metals: circle/outline green
   2. Metalloids: circle/outline yellow
   3. Nonmetals: circle/outline blue
   4. Alkali Metals: color red
   5. Alkaline Earth Metals: color orange
   6. Halogens: color purple
   7. Noble Gases: color brown
   8. Most Reactive Metal Group/Family: draw a star above this group/family
   9. Most Reactive Nonmetal Group/Family: draw a star above this group/family



1. What do the following stand for?
   1. A=P=E
   2. M-A=N
2. Identify the following elements:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_