Science Homework – Periodic table / Intro to physics Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. For an element in period 4, how many electron shells are there?
2. Oxygen has how many electrons? Protons? Neutrons?
3. What are the names of the 4 families at the two extremes of the periodic table?
4. Draw the atom for Boron
5. What is the study of physics about?
6. Draw a bridge with a car and explain the pressure points.
7. Use items in your room and make a bridge that spans at least 4 feet. Take a picture and include it with this homework. What was the biggest challenge to making the bridge? What was its weakest point?
8. Look up and the define, in your own words: torque & shearing.