**GPS – Properties and Atoms Worksheet**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_\_\_\_\_

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| Vocabulary |
| ***Define the following terms from your notes.***   1. Element      1. Malleable 2. Luster 3. Physical property 4. Chemical property 5. Atom 6. Neutron 7. Electron 8. Proton 9. Nucleus 10. Compound 11. Glucose 12. Democritus’s ideas 13. John Dalton’s Atomic Theory 14. Plum-pudding model 15. Bohr’s Model 16. Modern Atomic theory |
| ***Analysis – Answer the following questions using your notes.*** |
| 1. How were Democritus’s ideas different from Dalton’s ideas? 2. Why did J. J. Thompson call his model the “plum-pudding” model? 3. How did Rutherford, one of Thompson’s students, change the plum-pudding model to his own? 4. What made Bohr’s model different from the others? 5. What is different about the modern theory from the older models of the atom? |
| ***Graphical Representation – Sketch the following items.*** |
| 1. Sketch Thompson’s plum-pudding model, Then, next to it, sketch Bohr’s model. 2. Sketch Bohr’s model of a Helium atom (2 neutron, 2 protons, 2 electrons). Label the charges of all the particles. 3. ***Pre-assess—***Sketch a Bohr’s model of a *Beryllium* atom (4 neutrons, 4 protons, 4 electrons). |