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| CHEMISTRY | CODE: SCS21 |
| 2014-2015 SCHOOL YEAR | INSTRUCTOR: Ms. Bui |
| CLASSROOM: 510 | LAB ROOM: 506 |

**ATOMIC CONCEPT**

**Homework 01**

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| Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Subject: Chemistry |

**1. Which subatomic particles are located in the nucleus?**

**2. If atom contains 31 protons, then it must contain how many electrons?**

**3. What account for most of the mass of the atom?**

**4. Which subatomic particle has a charge of +1?**

**5. Which subatomic particles are not found in the nucleus?**

**6. The charge of an atom is neutral because it has an equal number of what?**

**7. According to the atomic model, electrons travel around the nucleus how?**

**8. What is the total number of protons in an atom that has 24 electrons and 25 neutrons?**

**9. Why can the number of protons be determined if the number of electrons in an atom is known?**

**10. Draw the wave mechanical model.**

**11. Complete the table below:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Element** | **Protons** | **Electrons** | **Positive Charge** | **Negative charge** |
| **Hydrogen (H)** | **1** |  |  |  |
| **Oxygen (O)** |  | **8** |  |  |
| **Nitrogen (N)** | **7** |  |  |  |
| **Gold (Au)** |  | **79** |  |  |