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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

ATOMIC STRUCTURE

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|  |  |  |  |  | 13 |  |  |  |  |  |  |  | 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  | 16 |  |  |  |  |  | 17 |  |  |  |  | 18 |  |  |  |  |  |  |  |  |  |  | 19 |  |  |  |  |  |  |
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| 33 |  | 34 |  |  |  |  | 35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Across****6.** has a mass of about 1 amu**10.** what is mass number of Cl-36**11.** When an atom has equal protons and electrons it is \_\_\_\_\_.**13.** An atom has 20 protons and 18 electrons it is a \_\_\_\_\_\_\_**14.** atom that gains 2 electrons would have this charge**16.** average mass of all isotopes**19.** atomic number of 47**20.** negative subatomic particle**21.** subatomic particle with no charge**26.** In a neutral atom of Sulfur, there are 16 protons and 16 \_\_\_\_\_\_.**27.** number of electrons in neutral atom of lithium**28.** positive charged atom**29.** smallest particle of an element that still retains properties of the element**30.** most of an atoms mass is found here**33.** negative charged atom**35.** 33 electrons in neutral atom**36.** whole number listed on the periodic table**37.** an atom with the same atomic number and different \_\_\_\_\_\_\_ | **Down****1.** positive subatomic particle**2.** atoms that lose electrons have a \_\_\_\_\_\_ charge**3.** location of protons and neutrons**4.** atomic number of 28**5.** neutral subatomic particle**7.** having no charge**8.** How many neutrons are in N-16**9.** Atoms that gain electrons**12.** total protons + neutrons**15.** located in the electron cloud**17.** To be neutral, protons must equal \_\_\_\_\_\_.**18.** charge atom**22.** center of atom**23.** potassium has a charge of +1. It has \_\_\_\_\_\_ electrons**24.** Cl-35 has 18 \_\_\_\_\_.**25.** atoms of same element with different masses**31.** an atom has 11 protons + 12 neutrons =**32.** number of protons in carbon**34.** Mg-24 and Mg-25 are \_\_\_\_\_ of the same element |