

Unit 8 (Chapter 4) Atoms Review

For questions 1 - 8, if the statement is true, write **true** on your paper. If the statement is false, write false and then rewrite the statement so that it is true.

- 1) Protons and neutrons have the same charge. _____
- 2) Protons and electrons have opposite charges. _____
- 3) Protons and neutrons have the same mass. _____
- 4) Protons, neutrons, and electrons all live in the nucleus. _____
- 5) Neutrons have no charge and no mass. _____
- 6) An electron has the same mass as a neutron. _____
- 7) Both oxygen-17 and oxygen-18 are isotopes of oxygen. _____
- 8) An electron cloud represents all the electron orbitals in an atom. _____

Answer the following questions completely.

- 9) Write the three (3) parts of John Dalton's Atomic Theory.

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- 10) In Niels Bohr's model of the atom, electrons move like _____ orbiting the _____.

- 11) Where is the nucleus located in the atom? _____
a. What charge does the nucleus have? _____

- 12) Which subatomic particle has a negative charge? _____
a. Where are they located in the atom? _____

- 13) Which subatomic particle has a positive charge? _____
a. Where are they located in the atom? _____

- 14) Which subatomic particle has a neutral charge? _____
a. Where are they located in the atom? _____

- 15) Which subatomic particles have the same mass? _____ and _____

- 23) Fill in the chart below with the missing information:

- | | | |
|------------|------|-----------|
| Phosphorus | Neon | Beryllium |
|------------|------|-----------|
