

Across

3. have no charge(neutral), have a mass of one and located in the nucleus **6.** pure substance that is made from a single type of atom

9. the horizontal line same number of electron shells **11.** the TOTAL mass of the atom usually written underneath the name of the element on the periodic table

12. what atoms are made up of

13. the place in the atom containing most of the mass 14. the number of electrons located on the outer most electron shell 15. the mass of protons usually written on top of the symbol in the periodic table Down

1. where electrons are located on, this is located on the outside of the nucleus **2.** have a positive charge, a mass of one AMU and is located in the nucleus

4. a graph showing all the elements and their atomic mass, mass number and the element name and symbol

5. also knows as orbitals 7. the vertical line in the periodic table has the same number of valence electrons 8. have a negative charge, no mass and is located on the electron shells **10.** made up of three different subatomic particles and a nucleus