2.1 Subatomic Particles Prequiz (E)				
1 and reside in the atomic nucleus. A) Protons, electrons B) Protons, neutrons C) Electrons, neutrons D) none of the above E) Neutrons, only neutrons				
 2. In the Rutherford nuclear-atom model, A) the light subatomic particles, protons and neutrons, reside in the nucleus B) the three principal subatomic particles (protons, neutrons, and electrons) all have essentially the same mass C) the heavy subatomic particles, protons and neutrons, reside in the nucleus D) the three principal subatomic particles (protons, neutrons, and electrons) all have 				
essentially the same mass and mass is spread essentially uniformly throughout the atom E) mass is spread essentially uniformly throughout the atom				
3. Cathode rays are deflected away from a negatively charged plate because A) they are negatively charged particles B) they are not particles C) they are positively charged particles D) they are neutral particles E) they are emitted by all matter				
4. Of the following, the smallest and lightest subatomic particle is the A) nucleus B) proton C) neutron D) electron E) alpha particle				
 5. The atomic number indicates A) the number of different isotopes of an element B) the number of neutrons in a nucleus C) the number of atoms in 1 g of an element D) the total number of neutrons and protons in a nucleus E) the number of protons or electrons in a neutral atom 				
 6. Which one of the following is not one of the postulates of Dalton's atomic theory? A) During a chemical reaction, atoms are changed into atoms of different elements. B) Each element is composed of tiny, indivisible particles called atoms. C) Compounds are formed when atoms of different elements combine. D) Atoms of an element are not changed into different types of atoms by chemical reactions. E) All atoms of a given element are identical to each other and different from those of 				

other elements.

Name ______ Date _____ Period ____

Name	Date	Period
7. Different isotopes of a particular element A) subatomic particles B) protons, neutrons, and electrons C) neutrons D) protons and neutrons E) protons	contain the same number of	
8. According to John Dalton's observations, A) their masses are always equal. B) the ratio of their masses is always the sar C) each element contributes an equal number D) their volumes are always equal.	me.	compound,
9. Rutherford's gold foil experiment provide A) Alpha particles have a positive charge. B) Gold is not as dense as previously thoug C) Negative and positive charges are spread D) There is a dense, positively charged mas	ht. I evenly throughout an atom.	following?
10. Which subatomic particle has a negative A) electron B) proton C) neutron	e charge?	

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Name	Date	Period

Answer Key

- 1. B
- 2. C
- 3. A 4. D
- 5. E

- 6. A 7. E 8. B 9. D 10. A