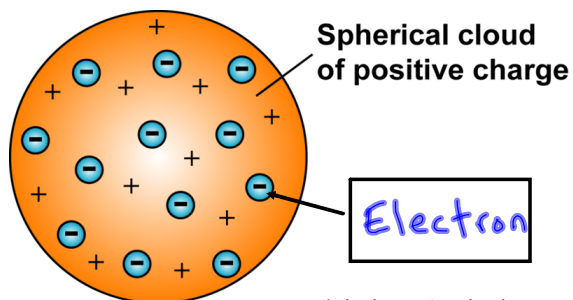


Physical Science 436 Quiz #1

Name:

Date:

1.

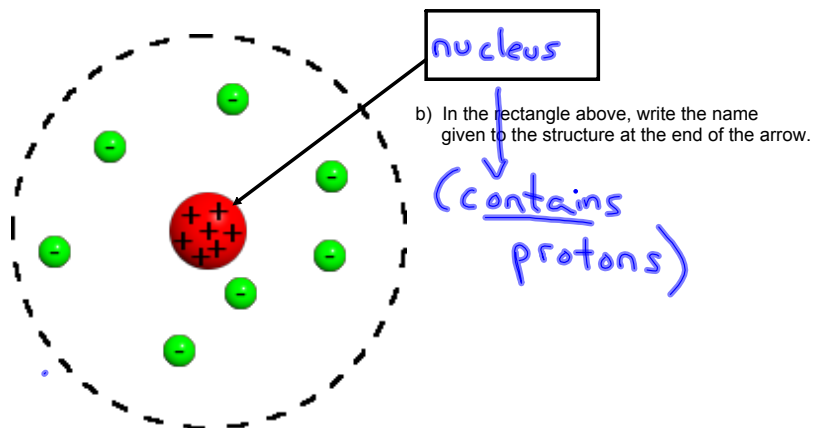


a) In the rectangle above, write the name of the particle that it refers to.

b) Whose model of the atom is depicted above? Thomson

(Choose from the following names: Ancient Greeks, Dalton, Bohr, Rutherford, Thomson, Current Simplified Model (Chadwick))

2.



b) In the rectangle above, write the name given to the structure at the end of the arrow.

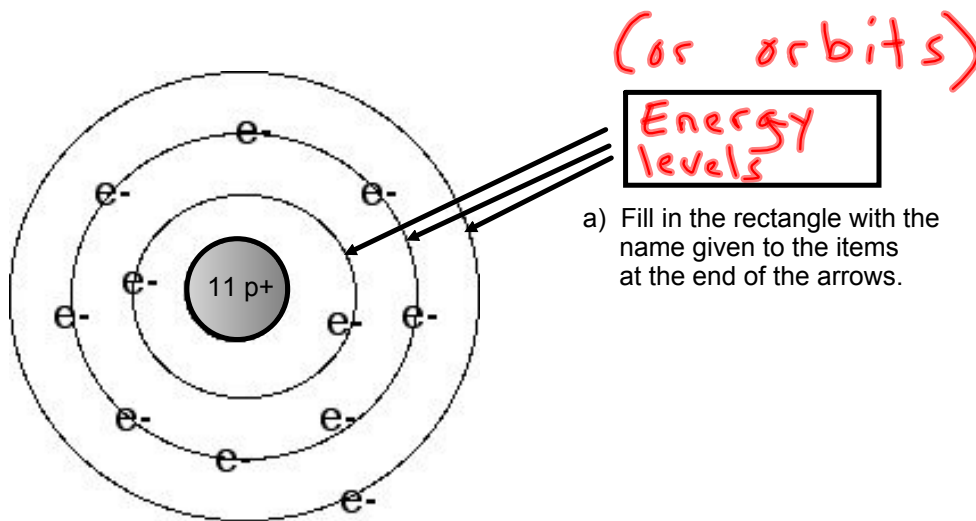
b) Whose model of the atom is depicted above? Rutherford

(Choose from the following names: Ancient Greeks, Dalton, Bohr, Rutherford, Thomson, Current Simplified Model (Chadwick))

3. Compare the two models of the atom which are shown above. Write two similarities and three differences in the table below.

Two features which are present in both models:	Three features which are present in the second model, but not in the first:
1. Neutral overall (amt + = amt -)	1. Most of atom is empty space
2. presence of electrons	2. nucleus (positively charged)
	3. protons

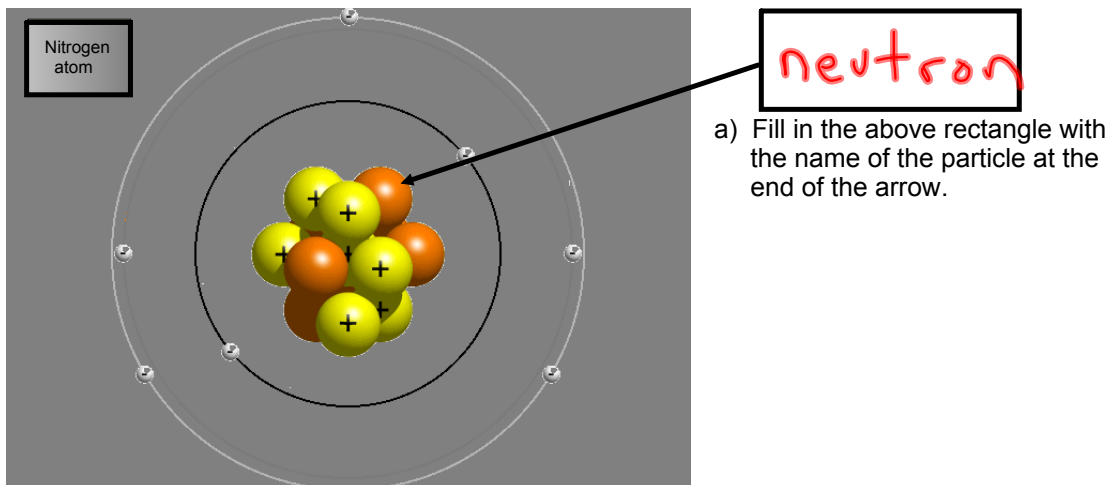
4.



b) Whose model of the atom is depicted above? Bohr

(Choose from the following names: Ancient Greeks, Dalton, Bohr, Rutherford, Thomson, Current Simplified Model (Chadwick))

5.



b) Whose model of the atom is depicted above? Current Simplified Model

(Choose from the following names: Ancient Greeks, Dalton, Bohr, Rutherford, Thomson, Current Simplified Model (Chadwick))

6. For each of the following statements, indicate the atomic model theory (i.e. Ancient Greeks, Dalton, Thomson, Rutherford, Bohr, or current simplified atomic model) to which it refers.

a) When cathode rays were deflected in magnetic fields the existence of electrons was hypothesized.

Answer: Thomson

b) The question, "What is the nature of matter?" was pondered.

Answer: Ancient Greeks

c) When high speed Helium nuclei were observed to pass through Gold foil the existence of protons was hypothesized.

Answer: Rutherford

d) The movement and distribution of electrons were shown to influence the behavior of atoms.

Answer: Bohr

e) This man built on Democritus' work..... Ans. Dalton

f) All matter was believed to be made of varying combinations..... Ans. Ancient Greeks

g) Neutrons in the nucleus are believed.... Ans. Current Simplified Model

