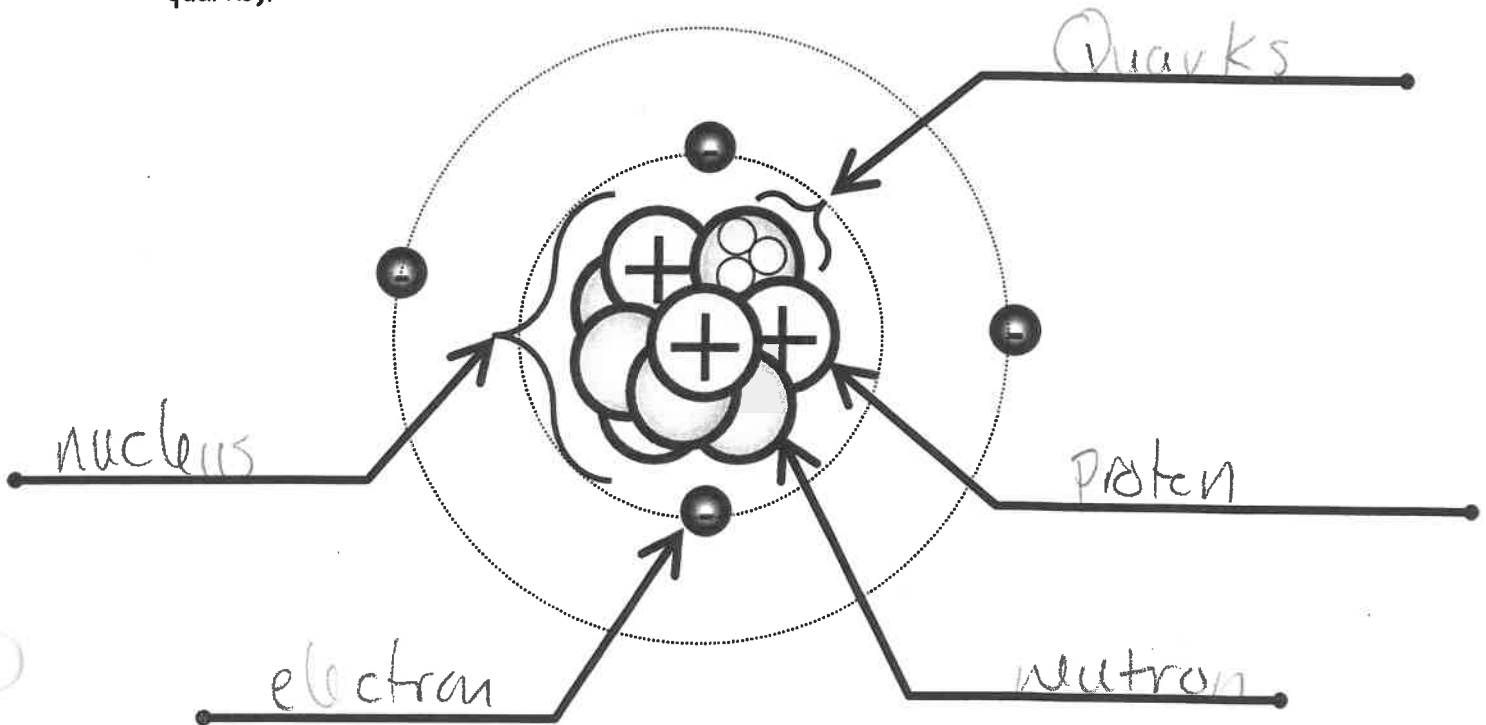


Name: Key Section: _____
Parts of the Atom

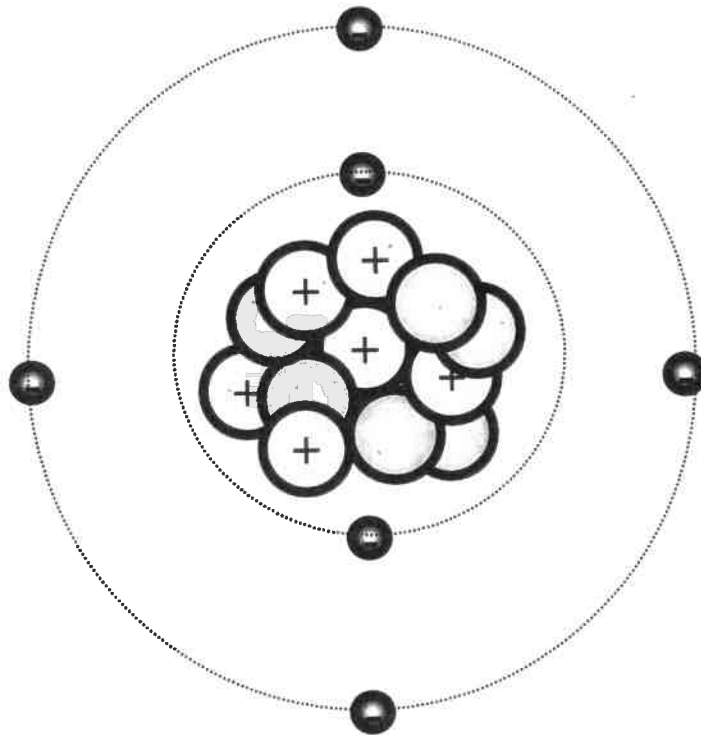
Part 1 - Label the parts of the atom below (protons, neutrons, electrons, nucleus, quarks).



Part 2 - Answer the following questions.

1. neutrons What part of the atom has no charge?
2. protons What part of the atom has a positive charge?
3. electrons What part of the atom has a negative charge?
4. 2 How many electrons can be held in the first orbital (closest to the nucleus)?
5. 8 How many electrons can be held in the second orbital?
6. 8 How many electrons can be held in the third orbital?
7. elect. / protons There are the same number of these two particles in an atom.
8. protons The atomic number is the same as the number of these particles.
9. protons / neutrons The mass number is determined by which particles?

Part 3 - Using the diagram below, answer the questions that follow.



1. 6 How many protons does the atom have?
2. 6 How many neutrons does the atom have?
3. 6 How many electrons does the atom have?
4. 6 What is the atomic number of the atom?
5. 12 What is the mass number of the atom?

Carbon -