Vocab for Unit II: Atomic Structure

You will need to number your paper just as this paper

instructs.

**Chapter 4: Atomic Structure**

Compare and Contrast (if just one word, define)

1. Atom
2. Proton/ Neutron/ Electron
3. Quark
4. Atomic number / proton number
5. Atomic number/ mass number
6. Nucleus of atom / electron cloud of atom
7. Period on periodic table/ group on periodic table

Who is responsible for each of the following models or experiments?

1. Cathode Ray Tube
2. Believed atoms were indivisible and indestructible.
3. Gold foil experiment
4. Building the first Electron Microscope

**Chapter 5: Electrons in Atoms**

1. Quantum Mechanical Model
2. Aufbau principle
3. Pauli exclusion principle
4. Hund’s Rule

**Chapter 6: The Periodic Table**

1. Metals/Metalloids/ Nonmetals
2. Ion
3. Cation / anion

Answer the following questions in complete sentences.

1. How did chemists first organize elements on the periodic table? How did Mendeleev organize his periodic table?

**Chapter 25: Nuclear Chemistry**

1. Radioactivity / radiation
2. Alpha particle/beta particle/gamma ray (you can draw)
3. Half – life
4. Nuclear fusion / nuclear fission

Answer the following questions in complete sentences.

1. Can radioactive material really emit a glow? Or is that just on TV?
2. How does radiation affect us?

List 4 examples of how we use radiation. With each example, state why we use it, is it safe, do you think we really need it?

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