Ch 3-3: What are the parts of an atom? Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Basic Physical Science Notes S2 2019

Key Terms:

1. Nucleus: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Proton: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Neutron: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Electron: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fill-in-the-blank Ch 3-1:

1. \_\_\_\_\_\_\_\_\_\_\_\_\_ first suggested that atoms are made up of smaller particles.
2. \_\_\_\_\_\_\_\_\_\_\_\_\_ discovered that an atom is mostly empty space.
3. \_\_\_\_\_\_\_\_\_\_\_\_\_ propose the idea that electrons are found in different energy levels around the nucleus.
4. The \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ describes the area around the nucleus where electrons are most likely found.

Short Answer:

1. Complete the table below:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Charge | Mass | Location |
| Proton |  |  |  |
| Neutron |  |  |  |
| Electron |  |  |  |

1. What did Dalton’s Model look like?

1. Describe and draw Thomson’s Model.
2. How did Rutherford’s Model look different from Thomson’s? Sketch.
3. What did Bohr’s Model add to Rutherford’s? Show in a sketch.
4. The Modern Model is based on the works of Thomson, Rutherford, Bohr and other scientists. Describe and draw the Modern Model.